MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

Preliminary Determination/Decision - Statement of Basis

for Modification to

FOP Number: 100005

For:

CEMEX Construction Materials Pacific, LLC

Facility:

CEMEX River Plant and Mountain Quarry Plant

Document Date: 07-16-19

Submittal date to EPA/CARB for review on or before: **07-17-19** EPA/CARB 45-Day Commenting Period ends: **09-02-19** Public Notice Posted, on or before: **07-22-19**

30-Day Public Commenting Period ends at COB: **08-21-19**

Permit Issue date: On or about: 09-03-19

Permitting Engineer: Samuel Oktay, PE

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A. Introduction

1. Application and Setting

CEMEX Construction Materials Pacific, LLC (CEMEX) owns and operates the River and Black Mountain Quarry plants in Victorville and Apple Valley, CA. Their product involves the mining and processing of limestone to produce Portland Cement.

CEMEX has submitted an Authority to Construct Permit Application for the CEMEX - Black Mountain Quarry Plant (Apple Valley) facility and the River Plant (Victorville) both located in San Bernardino County, California to authorize the operation of two diesel-fired portable compressor engines and one stationary emergency fire pump, which will be located at their Quarry Plant. The trailer mounted diesel-fired portable compressors will be moved among each facility depending on its needs at either location. The two plants share a common Title V permit as their rail system makes them a contiguous facility.

Concurrent with the application process, Cemex has requested a Significant Modification to incorporate the new equipment and regulatory requirements into their existing Title V permit.

Since CEMEX is an existing Major source of air contaminants for SOx, NOx, VOC, and PM-10, all new sources of emissions, for these pollutants must be fully offset.

Therefore, and pursuant to Regulation XIII, emission reduction credits (ERCs) were purchased from Sierra Power Corporation and transferred to CEMEX to offset the applicable annual pollutant emissions produced by the additional engines. The ERCs were transferred from San Joaquin Valley Air Pollution Control District (SJVAPCD) to the MDAQMD. A copy of the ERC transfer package is included in the Application copy located in Appendix A.

The following ERC amounts were transferred to CEMEX from Sierra Power Corporation:

- 23 pounds PM-10;
- 878 pounds NOx, and
- 4 pounds SOx.

The applicant is proposing a 1.3 to 1 emission offset for the ERCs transferred from the SJVAPCD to the Mojave Desert AQMD and an additional 2:1 NOx for VOC, as the purchased ERCs did not directly include VOC credits.

Pursuant to District Rule 1301 – *New Source Review Definitions*, CEMEX is an existing Major Facility for CO, NOx, VOC and PM10. This section of the MDAQMD is classified as attainment by USEPA and CARB for CO and SO₂, and Non-Attainment for Ozone and PM-10. Therefore, pursuant to District Rule 1303 – *New Source Review Requirements*, the proposed equipment is subject to both BACT and Offset requirements for the Nonattainment Air Pollutant and Precursors of NOx, VOC and PM10.

Also, and since the application involves three new emission units located at an existing Major Source Facility, a complete NSR Analysis is required.

CEMEX, is defined as a federal Major Facility pursuant to District Rule 1201 – Federal Operating Permit Definitions. The proposed modifications are classified as a Significant Modification to the CEMEX Federal Operating Permit (FOP). Pursuant to District Rule 1205 – Modifications of Federal Operating Permits, section (B)(2) and District Rule 1302(D)(1)(d), this document serves as the preliminary decision and Statement of Legal and Factual Basis.

2. Description of Project

CEMEX proposes to permit and operate a new Tier III DIESEL IC ENGINE, EMERGENCY WATER PUMP, consisting of One John Deere, Diesel fired internal combustion engine Model No. 6090HFC47A and Serial No. RG6080L117349, After Cooled, Electronic Control Module, High Pressure Fuel Injection (also EM), Turbo Charged, producing 422 bhp with 6 cylinders at 1760 rpm while consuming a maximum of 17 gal/hr, which powers a Firewater Pump. Additionally, CEMEX is seeking to permit and operate two new DIESEL IC ENGINE, PORTABLE AIR COMPRESSORS, each consisting certified Tier 4-Final 4SRB, diesel-fueled engines.

The emissions associated with these three new engines will be completely offset through the use of purchased Emission Reduction credits from the upwind San Joaquin Valley Air Pollution Control District.

B. Analysis

1. Determination of Emissions [District Rule 1302(C)(1)]

The owner/operator has proposed to operate the new Fire Pump engine as an emergency engine and to operate the engine no more than 50 hours per year for testing and maintenance purposes. Therefore, and pursuant to District Rule 1302, Procedure, the engines Potential to Emit (PTE) has been calculated based on 1-Hr/Day, and no more than 50 hours per year for testing and maintenance. CO, NOx, VOC and PM-10 emission levels are based on manufacturer's guaranteed levels, and SOx is calculated based on fuel flow rate and sulfur content of 15 ppmv. See Table 1 below for emissions summary.

https://www.deere.com/en/ge	nerator-drive-engines/eu-st			y) Emissions from Emergency F	-				
Application No/Per	MD1000002306	Units	1000 GAL/HR	1000 GAL <i>I</i> YR					
Permit No.	E013353								
Equipment Cerified Tiel	John Deere								
Make									
Mode/	6090HFC47A								
EPA Family CARB EO	DJDXL09.0114 NA								
Euelrate		gal/hr	0.017	0.85					
		kW	0.017	0.00					
Engine Kw									
Engine bhp		bhp							
Daily Operation		hr/day							
Annual Operation	50	hrs/yr							
POLLUTANT	CAS#	Emis	sion Factor	Lbs/1000-Gals	PTE (lbs/Hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissio ns (tons/ve	Emission Factor g/bhp-hr (1Kw= 1.341
CRITERIA									
CO	42101	0.9000	-IV., I.,	36.7653	0.6250	0.62501	31	0.0156	0.7
			g/Kw-hr						
SO _x	42401		g/Kw-hr	0.2026	0.0034	0.00344	0.172	0.0001	0.004
NOX	42603		g/Kw-hr	142.9763	2.4306	2.43060	122	0.0608	2.6
NMHC (VOC)	43104		g/Kw-hr	4.0850	0.0694	0.06945	3	0.0017	0.1
NOX + NMHC (VOC)			g/Kw-hr	151.1463	2.5695	2.56949	128	0.0642	2.7
PM ₁₀	85101	0.1400	g/Kw-hr	5.7191	0.0972	0.09722	5	0.0024	0.11
PM2.5	88101	0.1400	g/Kw-hr	5.7191	0.0972	0.09722	5	0.0024	0.11
TOXICS									
Diesel Particulate	9901			5.7191	9.72E-02	9.72E-02	4.86E+00		
NOTES: Emission Factors are fro	om Manufacturers Spe	c Sheet	except SOx, whic	h is calculated below.					
*Data used to calculate	SOx Emission Factor:	s							
Fuelrate	17	gal/hr							
Density of Ultra-low Sui	Kur Diesel No. 2								
•	6.76	lbs/gal							
Sulfur fraction of Ultra-	low Sulfur Diesel No.2								
	0.000015	gS	0.0015%	Rule M 431 Requires 0.05 % Max					
Molecular Weights				·					
Sulfur	32.06	g/mol							
Sulfur dioxide		g/mol							
	1.998128509		5						
Horsepower of Engine	422		_						
riorseponer or Engine		Kw							
	0.003174603								
	0.003114003	II F\W							
Caguagorias -	453.6	- 1114 -							
Conversions		gribs							
	455.0								
Equation used		E CHCC	()() () () () ()	1204.00 000100.00 0					
Equation used		15gS/100g	g (sulfur) X 1/315k\	√X 64.06 gSO2/32.06gS =					
Equation used	X 453.515 g/lb X 0.001	15gS/100g gSO2/K		√ X 64.06 gSO2/32.06gS =					

Emissions from the two Portable Air Compressors are based on Tier IV Final emission standards for certified off-road engines. See Tables 2 and 3 below for emissions summary from each of the two portable air compressor emissions.

Application NotPen	mit Na	Units	1000 GAL/HR	1000 GALIYR					
Flermit No.	B013522								
Equipment Tier IV F									
Make	John Deere								
Mode/	6068								
EFA Family CARB EC									
CARDEU Fuelrate	10.10	gal/hr	0.0101	88.476					
	186.43		0.0101	00.416					
Engine Kw Engine bho	250								
Engine onp Daily Operation		hr/day							
Daily Operation Annual Operation		hrs/yr							
Annuaroperation	400	riisiyi							
POLLUTANT	CAS #	Emissi	on Factor	Lbs/1000-Gals	PTE (lbs/Hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1Kw= 1.341 bhp)
CRITERIA									
co	42101	3.50	g/kW-hr	7.8041	0.0788	34.5237	690	0.3452	2.610
							030		
SO _x	42401		g/kW-hr	0.0111	0.0001		70	0.0005	0.004
NOX	42603		g/kW-hr	0.8919	0.0090		79		0.298
NMHC (VOC)	43104			0.4237	0.0043		37	0.0187	0.142
PM ₁₀	85101			0.0446	0.0005		4	0.0020	0.015
PM2.5	88101	0.0200	g/kW-hr	0.0446	0.0005	0.1973	4	0.0020	0.015
TOXICS									
Diesel Particulate	9901			0.0446	4.50E-04	1.08E-02	3.95E+00		
NOTES:									
Emission Factors are fro	m Off-Road Engine S	tandards for Ti	er IV Final						
Data used to calculate									
Fuelrate		gal/hr							
Density of Ultra-low Sul									
C. K C V (2 *		lbs/gal							
Sulfur fraction of Ultra-i			0.0045*	D. J. M 491 D					
Malandado	0.000015	go	0.0015%	Rule M 431 Requires 0.05 % Max					
<i>Molecular Weights</i> Sulfur	22.00	-11							
Sulfur dioxide		g/mol							
Juliui dioxide		g/mol as02/as							
Horsepower of Engine	1.998128509	goozigo							
noisepoliter or Engline	186.4280388	V							
	0.005364								
Conversions	0.003304	HINW							
CONVERSIONS	4E3 C	g/lbs							
Equation used	453.0	gnos							
					ı				
	I V 453 515 JJL ∨ 0 0	015a9/100a (JEWY 21486 4260	X 64.06 gSO2/32.06gS =					

Application No/Permit No		Units	1000 GAL/HR	1000 GALIYR					
Fermit No.	B013523								
Equipment Tier IV Final	D013323								
Make	John Deere								
Model	6068								
EFA Family									
CARBEO	10.10	gal/hr	0.0101	88.476					
Fuelrate Facina Viv	186.43		0.0101	00.476					
Engine Kw	250								
Engine bhp Daily Operation		hr/dav							
Annual Operation		hrslyr							
Annual Operation	400	riisiyi							
POLLUTANT	CAS #	Emissi	on Factor	Lbs/1000-Gals	PTE (lbs/Hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1Kw= 1.341 bhp)
CRITERIA									
CO	42101	3.50	g/kW-hr	7.8041	0.0788	34.5237	690	0.3452	2.610
SO _v	42401	0.0050	g/kW-hr	0.0111	0.0001		1	0.0005	0.004
NOX	42603	0.0030	g/kW-hr	0.8919	0.0000		79		0.298
NMHC (VOC)	42003		g/kW-hr	0.0313	0.0030		37		0.230
PM ₁₀	85101	0.0200	g/kW-hr	0.0446	0.0005		4		0.019
PM2.5	88101		g/kW-hr	0.0446	0.0005		4		
TOXICS									
Diesel Particulate	9901			0.0446	4.50E-04	1.08E-02	3.95E+00		
NOTES:									
Emission Factors are from Off-R	oad Engine Star	ndards for Tier l	V Final						
*Data used to calculate SOx Em	:: F								
Fuel rate		gal/hr							
Density of Ultra-low Sulfur Diese		gairii							
Derion, or only for our ar Diese		lbs/gal							
Sulfur fraction of Ultra-low Sulfu		.corgui							
	0.000015	αS	0.0015%	Rule M 431 Requires 0.05 % Max					
Molecular Weights	2.223010		2.22107						
Sulfur	32.06	g/mol							
Sulfur dioxide		g/mol							
	1.998128509								
Horsepower of Engine		_							
<u> </u>	186.4280388								
	0.005364	1/Kw							
Conversions									
	453.6	g/lbs							
Equation used									
10.1 gal/hr X 6.76 lbs/gal X 453.5			r) X 1/186.43kW X 6	4.06 gSO2/32.06gS =					
SOx Emissions =	0.0050	gSO2/Kw-hr							

Since the proposed engines are new emission sources, all of the criteria pollutants for those pollutants, for which the facility is a major source of, and that the District is designated as nonattainment for, shall be fully offset. CEMEX is an existing Major Source for NOx, CO, VOC, SOx and PM10, with a Potential to Emit that exceeds the major source thresholds for these air pollutants. The MDAQMD is in attainment for CO, and therefore this attainment air pollutant will not require offset. The MDAQMD is also in attainment for SOx, however, it is a precursor of PM10 and the applicant is proposing to offset those emissions along with NOx, VOC and PM10. Table 4 summarizes the emissions for SOx, NOx, VOC's and PM-10 from the new engines.

Table 4: Emission Summary				
Permit Number	SOX Lbs/Yr	NOx Lbs/Yr	VOC Lbs/Yr	PM10 Lbs/Yr
E013353	0.17	121.53	3.4723	4.86119
B013522	0.98	78.91	37.4829	3.94557
B013523	0.98	78.91	37.4829	3.94557
Total Lbs/Yr	2.14	279.35	78.44	12.75

As mentioned, the applicant has purchased and transferred Emission Reduction Credits (ERCs) from the SJVAPCD. A copy of the ERC transfer package is included in the Application package, copy of which is in Appendix A of this document.

In anticipation of the need for ERCs Cemex Construction Materials Pacific, LLC requested and received approval of the transfer of ERCs from SJVAPCD. This was accomplished in accord with the California Health and Safety Code Section 40709.6, which requires an inter-district transfer to be approved by a resolution adopted by the Governing Board or Air Pollution Control Officer in each District.

From application:

California Health and Safety Code 40709.6 allows for the offset of emissions at a stationary source located in one air district with emissions reductions credited to a stationary source in another air district, outside of the air basin if the following conditions are met; the stationary source to which the emissions reductions are credited is located in an upwind district that is classified as being a worse non-attainment status than the downwind district, and the stationary source at which there are emissions increase to be offset is located in a downwind district that is overwhelmingly impacted by emissions transported from the upwind district.

The MDAQMD concurs that the ERC transfer meets the requirements of the California Health and Safety Code. Furthermore, to ensure that a greater amount of ERCs than pollutants emitted, and pursuant to MDAQMD regulations, CEMEX has proposed that the purchased ERCs are greater that the potential to emit from the three engines by a ratio of 1.3 to 1. Additionally, the applicant has proposed the use of NOx ERCs for VOCs at additional inter-pollutant ratio of 2:1.

Detailed documentation of the ERCs and transfer sequence can be found in the application in the Appendix section of this document. Table 5, below, summarizes the available ERC's.

Table 5: ERC's Transferred t	o CEMEX			
ERC Certificate SOX Lbs/Yr		NOx Lbs/Yr	VOC Lbs/Yr	PM10 Lbs/Yr
SJVAPCD PM10 ERCs from Certificate No. 5-4847-4		0	0	23.00
SJVAPCD SOx ERCs from Certificate No. 5-4585-5	4.00	0	0	0
878 pounds of SJVAPCD NOx ERCs, or 0.439 tons of MDAQMD NOx ERCs from Certificate No. 5- 4990-2	0	878.00	0	0

As previously stated, CEMEX is proposing a 1.3 to 1 for the Inter-District ERC transfer ratio for the applicable pollutants; and, a 2:1 NOx for VOC interpollutant ratio. Table 6 summarizes the results of the ERCs required, including the applicable ratios.

Table 6: ERC Summary Inclu	ding Applica	ble Ratios			
Permit Number	SOx Lbs/Yr NOx Lbs/Yr		VOC Lbs/Yr	PM10 Lbs/Yr	
E013353	0.17	121.53	3.4723	4.86119	
B013522	0.98	78.91	37.4829	3.94557	
B013523	0.98	78.91	37.4829	3.94557	
Total Lbs/Yr	2.14	279.35	78.44	12.75	
ERCs Required (Apply 1.3 to 1					
Ratio for Criteria Pollutants)	2.78	363.16	101.97	16.58	
NOx for VOC at 2:1 Ratio		203.94	203.94		
Total Required ERCs After Ratio Adustments	2.78	567.10		16.58	
Total ERCs Available	4	878	0	23	
Total Required ERCs After Ratio Adustments (from above)	2.78	567.10	0.00	16.58	
Excess ERCs	1.22	310.90	0.00	6.42	

In conclusion, the purchased ERCs are more than adequate to account for the emission from the proposed three new engines.

2. Determination of Nonattainment NSR Requirements [District Rule 1302(C)(2)]

a. BACT Evaluation[District Rule 1302(C)(2)(a)]

Best Available Control Technology (BACT) is required for each new or Modified Permit Unit at a Modified Facility that emits, or has the Potential to Emit, twenty-five (25) pounds per day or more of any Nonattainment Air Pollutant or its Precursors (District Rule 1303(A)). Additionally, BACT is required for a new or Modified Facility that emits, or has the Potential to Emit, twenty-five (25) tons per year or more of any Nonattainment Air Pollutant or its Precursors (District Rule 1303(A)).

CEMEX, has a facility PTE in excess of twenty-five (25) tons per year for the Nonattainment Air Pollutants and Precursors of NOx, VOCs, SOx, and greater than 15 tpy for PM10.

Since the facility is a major source for NOx, VOC, SOx and PM10, applicable BACT must be applied to all new equipment.

Proposed new equipment consists of:

1-DIESEL IC ENGINE, EMERGENCY WATER PUMP consisting of: Year of Manufacture is 2013. Engine is a certified Tier III diesel engine, EPA Family DJDXL09.0114; EPA Certificate Number DJDXL09.0114-005; Engine Model Year 2013; DOES NOT HAVE A CORRESPONDING CARB EO CERTIFICATE. Engine meets USA EPA (NSPS) Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Sub Part IIII). Engine Exhaust Flow is TBD cfm at TBD Degrees F.

This engine is classified as an emergency water pump engine. BACT emission levels have been established for this class and category; obtained by the San Joaquin Valley Unified Air Pollution District for an Emergency Diesel fueled firewater pump engine; see screen print from their BACT determination, specifically as applicable to this Engine type.

See website: https://www.valleyair.org/busind/pto/bact/chapter3.pdf

San Joaquin Valley Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 3.1.4*

Last Update: 06/30/2001

Emergency Diesel I.C. Engine Driving a Fire Pump

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	Positive crankcase ventilation [unless it voids the Underwriters Laboratories (UL) certification]	Catalytic Oxidation	
SOx	Low-sulfur diesel fuel (500 ppmw sulfur or less) or Very Low-sulfur diesel fuel (15 ppmw sulfur or less), where available.		
PM10	0.1 grams/bhp-hr (if TBACT is triggered) (corrected 7/16/01) 0.4 grams/bhp-hr (if TBACT is not triggered)		
NOx	Certified NOx emissions of 6.9 g/bhp-hr or less		
СО		Oxidation Catalyst	

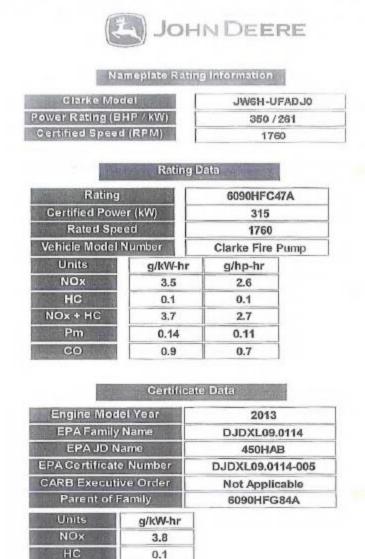
Any engine model included in the ARB or EPA diesel engine certification lists and identified as having a PM10 emission rate of 0.149 grams/bhp-hr or less, based on ISO 8178 test procedure, shall be deemed to meet the 0.1 grams/bhp-hr requirement.
 A site-specific Health Risk Analysis is used to determine if TBACT is triggered. (Clarification added 05/07/01)

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a State Implementation Plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

*This is a Summary Page for this Class of Source

The certified, Tier III, engine emissions, from the Engine Manufacturer, John Deere, are provided herein:

Rating Specific Emissions Data - John Deere Power Systems



3.9 0.13

0.9

NOx + HC

CO

This information is properly of Deere & Company. It is provided solely for the purpose of obtaining certification or permits of Deere powered equipment. Unauthorized distribution of this information is prohibited

The MDAQMD has compared the certified emissions with the BACT requirements and it has been determined that the emergency fire-pump engine meets BACT requirements for this class and category of engine.

¹ The emission data listed is measured from a laboratory test engine according to the test procedures of 40 CFR 89 or 40 CFR 1039, as applicable. The test engine is intended to represent nominal production hardware, and we do not guarantee that every production engine will have identical test results. The family parent data represents multiple ratings and this data may have been collected at a different engine speed and load. Emission results may vary due to engine manufacturing tolerances, engine operating conditions, fuels used, or other conditions beyond our control.

This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. Additionally, the proposed emergency diesel IC engine powering a firewater pump is exempt from the operating hours limitation provided the engine only operates the amount of hours necessary to satisfy National Fire Protection Association (NFPA) regulations.

The applicant is also proposing to permit two new DIESEL IC ENGINE, PORTABLE AIR COMPRESSORS, each consisting of: A certified Tier 4 Final, 4-Stroke Rich Burn (4SRB), diesel-fueled engine manufactured in 2016. Engine Exhaust Flow is TBD cfm at TBD Degrees F. Stack height is TBD feet high and Stack Diameter is TBD inches. Equipment elevation is 3620 feet above sea level. Each consists of one John Deere, Diesel fired internal combustion engine Model No. 6068 and Serial No's HOP081888, and TBD, After Cooled, Diesel Oxidation Catalyst, Diesel Particulate Filter, Selective Catalytic Reduction, producing 250 bhp with 6 cylinders at 2100 rpm while consuming a maximum of 10.1 gal/hr.

These engines, classified as Transportable, Compression - Ignited IC Engines (Non-Agricultural). BACT emission levels have been established for this class and category obtained by the San Joaquin Valley Unified Air Pollution District. A screen-print of that BACT determination is shown below.

Also see website: https://www.valleyair.org/busind/pto/bact/chapter3.pdf.

Best Available Control Technology (BACT) Guideline 3.2.11*

Last Update: 08/11/2014

Transportable Compression - Ignited IC Engines (Non-Agricultural)*

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
voc	The proposed engine shall meet the latest available CARB certification standard for the particular horsepower range.		LPG/Propane Fired Engine
	(Example: a 200 bhp engine proposed in 2014 shall be Tier 4i certified and meet the emission standard of 0.14 g- VOC/bhp-hr)		
SOx	Very Low Sulfur Fuel (0.0015% fuel S by weight)		
PM10	The proposed engine shall meet the latest available CARB certification standard for the particular horsepower range.		LPG/Propane Fired Engine
	(Example: a 200 bhp engine proposed in 2014 shall be Tier 4i certified and meet the emission standard of 0.01 g- PM10/bhp-hr)		
NOx	The proposed engine shall meet the latest available CARB certification standard for the particular horsepower range.		LPG/Propane Fired Engine
	(Example: a 200 bhp engine proposed in 2014 shall be Tier 4i certified and meet the emission standard of 1.5 g- NOx/bhp-hr)		
СО	The proposed engine shall meet the latest available CARB certification standard for the particular horsepower range.		LPG/Propane Fired Engine
	(Example: a 200 bhp engine proposed in 2014 shall be Tier 4i certified and meet the emission standard of 2.6 g- CO/bhp-hr)		

For the purposes of this BACT guideline, Transportable Compression -Ignited IC engines are IC engines that remain or will remain at a location (any single site at a building, structure, facility, or installation) for 12 months or less or a shorter period of time for an engine located at a seasonal source.

3.2.11

San Joaquin Valley Unified Air Pollution Control District

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a State Implementation Plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

*This is a Summary Page for this Class of Source

The manufactures spec sheet indicates that these portable air compressor engines are Tier 4 Final engines. See screen print from spec sheet below:

Model		XAVS 550 JD8 XAS 90			00 JD8
Actual free air delivery (Standard eir)	CFM*	575	850	750	867
Actual free air delivery (Aftercooled air)**	CFM*	545	620	720	837
Working pressure	psi (Bar)	250	200	150	100
Working pressure range	psi (Bar)	58 -	275	58-	175
Discharge outlet quantity	*	3	standard, 4 v	v/ aftercoole	r
Discharge outlet size	inches		1 x 1 1/2"	8 2 x 3/4"	
Regulation system			Pneu	matic	
Engine			18 - 1	NOT THE	
Model	John Deere		60	68	
Displacement	L		6.	8	
Cylinders	*		f	5	
Tier	US EPA		Tior 4	Final	
Exhaust after-treatment		DOC/DPF/SCR			
HP		250			
Rated speed (High)	RPM		21	00	
Rated speed (Low)	RPM		13	00	
Fuel tank capacity	Gal (L)		88 (3	333)	
Fuel consumption @100% load	Gal/hr (L/hr)	10.1(38.2)	10.5(39.7)	10.7(40.5)	10.7(40.5
Fuel autonomy @ 100% load	Hours	8.7	8.4	8.2	8.2
DEF tank capacity	Gal (L)		11.3	3 (43)	
DEF autonomy @ 100% load***	Hours		>	24	
Unit dimensions - LxWxH			-15 -16 -16	500 000	
Single axle trailer	Inches		203 x 8	30 x 86	
Weight (Wet)	lbs (kg)	7,980 (3,620)			
Support mounted	Inches	145.5 x 66.5 x 78			
Weight (Wet)	lbs (kg)		TE	BA	
Mossured seconding to ISD 1217, 2009 annex D. Dependent on unit * Alteropolar is an optional feature ** Besed on estimate of 3.5% of two consumption. Actual amounts			DEF age and qualit	y	
There is no fluctuations contained herein eight depict production of the product and, therefore, we are included in a promptonerws. We energy the eight to change the openional receiving the openion of the op	archase of such product	unless the cost	muni specificall	A DOLLE HURBOR ZHOU A	tu optioms//ex

Since the proposed engines are EPA certified Tier IV Final engines, they meet the BACT requirements from the SJVAPD BACT determination described above.

b. Offsets Evaluation [District Rule 1302(C)(3)]

Offsets are required for any new or modified Facility which has the Potential to Emit a Regulated Air Pollutant in an amount greater than or equal to the thresholds for the Nonattainment Air Pollutants and their Precursors specified in District Rule 1303 (B)(1). The offset threshold is 100 tons per year for CO, 15 tons per year for PM10, 25 tons per year for NOX, 25 tons per year for SOx, and 25 tons per year for ROC (VOC). It is proposed to utilize ERCs that were purchased in the SJVAPD and transferred to the MDAQMD for the purpose of offsetting the emissions from the proposed three new emission sources.

Table 5 below summarizes the ERCs that have been transferred to CEMEX Construction Materials Pacific, LLC, located within the MDAQMD nonattainment area.

Table 5: ERC's Transferred t	o CEMEX			
ERC Certificate SOX Lbs/Yr		NOx Lbs/Yr	VOC Lbs/Yr	PM10 Lbs/Yr
SJVAPCD PM10 ERCs from Certificate No. 5-4847-4	0	0	0	23.00
SJVAPCD SOx ERCs from Certificate No. 5-4585-5	4.00	0	0	0
878 pounds of SJVAPCD NOx ERCs, or 0.439 tons of MDAQMD NOx ERCs from Certificate No. 5- 4990-2	0	878.00	0	0

As described previously, since CEMEX is an existing Major source of air contaminants for SOx, NOx, VOCs, and PM-10, all new sources of emissions, for these pollutants have to be fully offset.

Therefore, and pursuant to Regulation XIII, emission reduction credits (ERCs) were purchased from Sierra Power Corporation and transferred to CEMEX to offset the applicable annual pollutant emissions produced by the additional engines. The ERCs were transferred from the SJVAPCD to MDAQMD. A copy of the ERC transfer package is included in the Application package; copy is in Appendix A, summarized below and in Table 5.

The following ERC amounts were transferred to CEMEX from Sierra Power Corporation:

- 23 pounds PM10;
- 878 pounds NOx, and;
- 4 pounds SOx.

The applicant has proposing a 1.3 to 1 emission offset for transfer from the SJ Valley to the Mojave Desert AQMD and an additional 2:1 NOx for VOC's as the purchased ERC's did not directly include VOC credits.

Pursuant to District Rule 1301 – *New Source Review Definitions*, CEMEX is an existing Major Facility for CO, NO_x, VOC and PM10. This section of the MDAQMD is classified as 'attainment/unclassified' by USEPA and CARB for CO and SO₂, and Non-Attainment for Ozone and PM-10. Therefore, and pursuant to District Rule 1303 – *New Source Review Requirements*, the proposed equipment is subject to both BACT and Offset requirements for the Nonattainment Air Pollutant/Precursors of NO_x, VOC and PM10. Additionally, and since CEMEX is a major source of PM10, and since SOx is a PM10 precursor, CEMEX has proposed to offset all SOx emissions as well.

Table 6 of this document summarizes emissions from the proposed three new engines, including the applicable ratios. The results indicate an excess in ERCs, once the calculations are made. The calculated emissions are based on engine operating limitations that will be mandated by permit conditions' and as indicated in Tables 1, 2, and 3 previously in this document.

3. Determination of Requirements for Toxic Air Contaminants [District Rule 1302(C)(5)]

a. New Source Review for Toxic Air Contaminants, District Rule 1320

Pursuant to District Rule 1320 – New Source Review for Toxic Air Contaminants, CEMEX is subject to both State and Federal Toxic New Source Review, as CEMEX is a Modified Facility which has the potential to emit Toxic Air Contaminants, and contains Emissions Units which are subject to an Airborne Toxic Control Measure (State T-NSR). CEMEX does have the potential to emit 10 tons per year of a single Hazardous Air Pollutant (Federal T-NSR) and/or 25 tpy of a combination of HAPs.

Pursuant to the requirements of District Rule 1320, an applicability analysis of state and federal air toxic regulations was conducted for the proposed equipment (State T-NSR and Federal T-NSR, respectively). The State T-NSR and Federal T-NSR analyses are described below:

Section (E)(1)(b) of District Rule 1320 requires that if any ATCM applies to the proposed equipment, the requirements of that ATCM shall be added to the District permit.

This new equipment is also subject to the State ATCM for Stationary and Portable Engines; Stationary, ATCM 17 CCR 93115, is applicable to the emergency firewater pump and the portable, ATCM 17 CCR 93116, is applicable to the two diesel powered air compressors.

Pursuant to District Rule 1320, section (E)(2), State T-NSR also requires an Emission Unit Prioritization Score to be calculated utilizing the most recently approved CAPCOA Facility Prioritization Guidelines, the most recently approved OEHHA Unit Risk Factor for cancer potency factors, and the most recently approved OEHHA Reference Exposure Levels (RELs) for non-cancer acute factors, and non-cancer chronic factors. Therefore, and pursuant to District Rule 1320 a Prioritization Score (PS) is calculated for these, three new emissions devices, based on the proposed potential to emit values. The prioritization score from these engines are summarized below:

Table 7: District Rule 1320 Prioritization Scores from the three new Proposed Engines

Three New Proposed Engines	Cancer Priority	Acute Non- cancer Priority	Chronic Non- cancer Priority
	0.0183	0.0000	0.0000

Distance to nearest receptor is 5638.8 meters. The engines will be permitted under the Quarry Plant's facility; therefore, all toxic assessments were taken from the Quarry Plant.

The Prioritization Score from the proposed engines, quantified using HARP2, is 0.0183, which by definition is considered a "Low Priority" emission source, and the associated health risk is considered acceptable.

4. Control of Toxic Air Contaminants from Existing Sources, District Rule 1520

Pursuant to District Rule 1520, the applicant submitted a 2018 Comprehensive Emission Inventory Report (CEIR), which was inputted into the HOTSPOTS ANALYSIS AND REPORTING PROGRAM EMISSION INVENTORY MODULE VERSION 2.1.0, (HARP2) Software program for subsequent analysis and results.

This methodology is consistent with the 2016 CAPCOA Facility Prioritization Guidelines, and is based on a receptor distance of 5638.8 meters.

Table 8, below, summarizes the CEMEX, Quarry Plant post-modification prioritization scores. As shown, the combined facility Prioritization Score is 1.2544. This score is between 1 and 10, and therefore, CEMEX Quarry Plant is categorized as an "Intermediate Priority" facility as defined by District Rule 1320, section (E)(2)(b). Therefore, no Contemporaneous Risk Reduction is required as a result of adding the proposed engines.

Table 8: District Rule 1520 Facility Prioritization Scores including three new Proposed Engines.

Including Three New Proposed Engines	Cancer Priority	Acute Non- cancer Priority	Chronic Non- cancer Priority
	1.2544	0	0.1314

5. Federal T-NSR:

Pursuant to section (F)(1) of District Rule 1320, the Modified Facility/Emissions Unit was analyzed to determine if any current, enforceable Maximum Achievable Control Technology (MACT) standards apply to the affect Emission Units.

The New Emergency Firewater engine is subject to NSPS, 70 CFR Part 60, Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, and must comply with the emission standards as summarized in Table 4 of Subpart IIII as shown below.

For full Regulations, see: https://www.ecfr.gov/cgi-bin/text-idx?rgn=div6&node=40%3A7.0.1.1.1.98#se40.8.60_14205

Table 4 to Subpart IIII of Part 60-Emission Standards for Stationary Fire Pump Engines

[As stated in §§60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NO _X	со	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011 +	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011 +	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011 +	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011 + ¹	4.7 (3.5)		0.40 (0.30)
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011 + ¹	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010 + ²	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009 +3	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009 + ³	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009 +	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008 +	6.4 (4.8)		0.20 (0.15)

¹For model years 2011-2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

 $^{^2}$ For model years 2010-2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

³In model years 2009-2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

Table 9 below summarizes the requirements of Subpart IIII and those from the engine's manufacturer.

Table 9: Comparison of Emission requirements of Subpart IIII and proposed Fire Pump Engine.

Emission Standards				
Pollutant	Subpart IIII g/Hp-hr	Proposed Emissions DIESEL IC ENGINE, EMERGENCY WATER PUMP, g/Hp-hr		
NOx + NMHC	3.0	2.7		
CO	NA	0.7		
PM	0.15	0.11		

In conclusion, the emissions from the proposed Fire Pump Engine is below the requirements of subpart IIII, therefore, the proposed Fire Pump Engine meets the emissions requirements of Subpart IIII.

The two proposed portable Air Compressors are Tier IV Final Engines that meet the most stringent emission requirements for off-road engines.

Furthermore, 40 CFR Part 63, Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines is Applicable to the proposed engines.

For full text, see: https://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A14.0.1.1.1.1;idno=40;sid=e94dcfde4a04b27290c44 5a56e635e58;cc=ecfr

§63.6602 of Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

§63.6590(c), Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. Since the proposed firewater pump engine meets the requirements of Subpart IIII, no further requirements apply for such engines under this part, §63.6590(c)(4); (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions; (Facility is a HAP Major Source)

Pursuant to the requirements in District Rule 1302 B(1)(a)(ii), an analysis of Alternative Siting is not required as the proposed equipment is not a Federal Major Modification as defined in District Rule 1302.

District Rule 1302, Procedure

District Rule 1302(B)(1)(ii), Requirements for Facilities Requiring Offsets; requires the applicant of all new and modified Facilities requiring offsets pursuant to District Rule 1303(B):

1. To provide an alternative siting analysis including an analysis of alternative sites, sizes and production processes pursuant to 42 U.S.C. §7503(a)(5) (Federal Clean Air Act §173(a)(5)). Such analysis shall be functionally equivalent to that required pursuant to Division 13 of the California Public Resources Code (commencing with section 21000).

Since the proposed change is not a Federal Major Modification, the requirements of Rule 1302(B)(1)(a)(ii) a.1 and a.2 do not apply; see discussion below.

2. Provide a statewide compliance certification stating that all Facilities which are under the control of the same person (or persons under common control) in the State of California are in compliance with all applicable emissions limitations and standards under the Federal Clean Air Act and the applicable implementation plan for the air district in which the other Facilities are located.

Since the proposed change is not a Federal Major Modification, the requirements of Rule 1302(B)(1)(a)(ii) a.1 and a.2 do not apply; see discussion below.

3. Provide a District Rule 1310 applicability analysis sufficient to show that the Facility or Modification is or is not a Federal Major Facility or a Federal Major Modification as defined in District Rule 1310(C).

The PTE from the proposed engines are significantly lower than the Federal Major Modification threshold, therefore the proposed modification is NOT a Federal Major Modification and District Rule 1310 is NOT applicable; see Table TBD below for emission threshold and comparison with proposed engines combined PTE.

4. Demonstrate that the requirements of subsections (B)(1)(a)(ii) a.1 and a.2 shall not apply if the Facility or Modification has been determined to not be a Federal Major Facility or a Federal Major Modification as defined in District Rule 1310(C)(6) and (7) or the Facility has previously applied for and received a valid Plantwide Applicability Limit (PAL) pursuant to the provisions of District Rule 1310(F).

The PTE from the proposed engines are significantly lower than the Federal Major Modification threshold, therefore the proposed modification is NOT a Federal Major Modification and District Rule 1310 is NOT applicable; see Table 10 below for emission threshold and comparison with proposed engines' PTE.

Additionally, and since the change is not a Federal Major Modification, the requirements of Rule 1302(B)(1)(a)(ii) a.1 and a.2 do not apply.

District Rule 1310, Table 2, summarizes Federal Significant Emissions Increase Threshold quantities. For full text, see: http://mdaqmd.ca.gov/home/showdocument?id=486

District Rule 1310, Table 2

POLLUTANT	EMISSION RATE (Within an attainment or unclassified area)	EMISSION RATE (Within an ozone nonattainment area)	EMISSION RATE (Within a moderate PM ₁₀ nonattainment area)
Carbon Monoxide (CO)	100 tpy	100 tpy	100 tpy
Lead (Pb)	0.6 tpy	0.6 tpy	0.6 tpy
Oxides of Nitrogen (NOx)	40 tpy	40 tpy	40 tpy
PM10	15 tpy	15 tpy	15 tpy
Volatile Organic Compounds (VOC)	40 tpy	40 tpy	40 tpy
Sulfur Dioxide (SO2)	40 tpy	40 tpy	40 tpy

CEMEX is located within a Federal non-attainment area, therefore the Emission Rates of column 2 are applicable. The proposed emission increases are well below the Federal Significant Emissions Increase Thresholds as shown in Table 10 below.

Table 10: Federal Significant					
Permit Number	SOX Lbs/Yr	NOx Lbs/Yr	VOC Lbs/Yr	PM10 Lbs/Yr	CO Lbs/Yr
E013353	0.17	121.53	3.4723	4.86119	31.25
B013522	0.98	78.91	37.4829	3.94557	690.47
B013523	0.98	78.91	37.4829	3.94557	690.47
Total Lbs/Yr	2.14	279.35	78.44	12.75	1412.20
Tons Per Year	0.00107	0.13968	0.03922	0.00638	0.70610
From District Rule 1310, Table 2: Federal Significant Emissions Increase Threshold quantities in TPY	40	40	40	15	100
ls Significant Threshold Triggered?	No	No	No	No	No

6. Determination of Requirements for Prevention of Significant Deterioration [District Rule 1302(C)(6)]

a. PSD Analysis

Rule 1302(B)(1)(a)(i)c requires that any application for an ATC or modification to a Permit to Operate (PTO) includes: "A District Rule 1600 applicability analysis sufficient to determine whether the Facility or Modification is or is not a new PSD Major Source or a PSD Major Modification as defined in District Rule 1600(B) using the procedures set forth in 40 CFR 52.21 (a)(2)."

CEMEX is located in an area designated as nonattainment for National Ambient Air Quality Standards (NAAQS) for criteria pollutants PM10, and Ozone, and their precursors. CEMEX is an existing PSD Major Source for CO, NOx, VOCs, and PM10. However, CEMEX does not have a PSD permit since permitting of most of the emissions units' pre-dates PSD regulations.

Emissions from the proposed new engine are compared with PSD Significant Emissions Increases (SEI) thresholds for each PSD regulated pollutant to determine if additional PSD analysis and/or requirements are triggered. This comparison is summarized in Table 11 below.

Table 11: PSD Analysis

Table 11: PSD Analysis						
Permit Number	SOX Lbs/Yr	NOx Lbs/Yr	VOC Lbs/Yr	PM10 Lbs/Yr	PM10 Lbs/Yr	CO Lbs/Yr
E013353	0.17	121.53	3.4723	4.86119	4.86119	31.25
B013522	0.98	78.91	37.4829	3.94557	3.94557	690.47
B013523	0.98	78.91	37.4829	3.94557	3.94557	690.47
Total Lbs/Yr	2.14	279.35	78.44	12.75	12.75233	1412.20
Tons Per Year	0.00107	0.13968	0.03922	0.00638	0.00638	0.70610
PSD Net Emissions Increase. Threshold quantities are in TPY	40	40	40	15	10	100
ls Significant Emission Increase Triggered?	No	No	No	No	No	No

The results of the emissions comparison with the appropriate pollutant PSD thresholds is that the modification DOES NOT trigger the PSD Significant Increase Thresholds, therefore no further PSD analysis is required.

b. NAAQS Impact Analysis

District Rule 1302, section (D)(5)(b)(iv) requires that any new or Modified Facility located in an area classified by USEPA as nonattainment or unclassifiable shall determine if the Facility will cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS).

Note: CEMEX is located in an area of the MDAQMD that is designated as attainment for CO and SOx. It is determined that proposed modification, discussed herein, through implementation of BACT, will not contribute to a violation of the NAAQS.

7. Rules and Regulations Applicable to the Proposed Project

District Rules

Rule 201/203 – *Permits to Construct/Permit to Operate*. Any equipment which may cause the issuance of air contaminants must obtain authorization for such construction from the Air Pollution Control Officer. CEMEX is in compliance with this rule as they appropriately applied for a District permit for all new equipment and maintains District permits for all residing equipment.

Rule 204 – *Permit Conditions*. To assure compliance with all applicable regulations, the Air Pollution Control Officer (Executive Director) may impose written conditions on any permit. The District has imposed permit conditions to ensure CEMEX complies with all applicable regulations.

Rule 206 – *Posting of Permit to Operate*. Equipment shall not operate unless the entire permit is affixed upon the equipment or kept at a location for which it is issued and will be made available to the District upon request.

Rule 207 – *Altering or Falsifying of Permit*. A person shall not willfully deface, alter, forge, or falsify any issued permit.

Rule 209 – *Transfer and Voiding of Permits*. CEMEX shall not transfer, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another. When equipment which has been granted a permit is altered, changes location, or is no longer operated, the permit shall become void.

Rule 210 – *Applications*. CEMEX has provided all the required information to correctly address the proposed equipment pursuant to this rule. There were instances, however, when additional information was requested, causing a thirty (30) day application clock to restart.

Rule 212 – *Standards for Approving Permits*. This rule establishes baseline criteria for approving permits by the District for certain projects. In accordance with these criteria, the proposed modifications and application does not cause issuance of air contaminants in violation of Sections 41700 or 41701 of the State Health and Safety code.

Rule 221 – Federal Operating Permit Requirement. CEMEX, is in compliance with this rule, as they currently hold and maintain a Federal Operating Permit.

Rule $301 - Permit\ Fees$. The proposed equipment will increase CEMEX annual permit fees by the applicable amounts described in section (E) of this rule.

Rule 401 – *Visible Emissions*. This rule limits visible emissions opacity to less than 20 percent (or Ringlemann No. 1). In normal operating mode, visible emissions are not expected to exceed 20 percent opacity.

Rule 402 – *Nuisance*. This rule prohibits facility emissions that cause a public nuisance. The proposed modifications and associated equipment is required by permit condition to employ good engineering and operational principles in order to minimize emissions and the possibility of a nuisance.

Rule 404 – *Particulate Matter Concentration*. This rule requires that no person exceed the particulate matter concentration provided in Table 404(a). Since Ultra Low Sulfur fuel is the only fuel that will be combusted by the proposed engines, and through the use of Tier III and Tier IV Final engines, the emitted particulate concentration will comply with the requirements of this rule.

Rule 405 - Solid Particulate Matter - Weight. This rule requires that no person exceed the particulate matter process weights provided in Table 405(a). Since Ultra Low Sulfur fuel is the only fuel that will be combusted by the proposed engines, and with the use of Tier III and Tier IV Final engines, the emitted particulate concentration will comply with the requirements of this rule; emissions will not exceed the limits in Table 405(a) and the proposed engine will therefore meet the requirements of this rule.

Rule 408 – *Circumvention*. This rule prohibits hidden or secondary rule violations. The proposed modifications as described are not expected to violate Rule 408.

Rule 430 – *Breakdown Provisions*. Any Breakdown which results in a violation to any rule or regulation as defined by Rule 430 shall be properly addressed pursuant to this rule.

Regulation IX:

Rule 900 – *Standards of Performance for New Stationary Sources (NSPS)*. Rule 900 adopts all applicable provisions regarding standards of performance for new stationary sources as set forth in 40 CFR 60. These regulations are periodically updated to reflect actions published in the Federal Register (FR) by the EPA.

40 CFR 60 Subpart IIII – New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines. This regulation applies to the proposed new emergency fire pump, and limits its allowable emissions. Emissions from the engine have been compared with the requirements of Subpart IIII, and it has been determined that the proposed engine will comply with the requirements of this NSPS.

Regulation X – *National Emission Standards for Hazardous Air Pollutants*. Pursuant to Regulation X, CEMEX is required to comply with all applicable ATCMs and under state law, a federal National Emission Standards for Hazardous Air Pollutants (NESHAP) becomes the State ATCM, unless the Air Resources Board (ARB) has already adopted an ATCM for the source category and associated hazardous air pollutant(s). In the case of the proposed new equipment,

there are two applicable State ATCM's. ATCM 17 CCR 93115, the ATCM for Stationary Compression Ignition Engines, is applicable to the proposed diesel fired emergency firewater pump; the engine is a certified Tier III engine and meets the emissions requirements of this ATCM.

The two proposed portable diesel fired air compressors are equipped with Tier IV Final engines, the least emitting engines for this class and category of equipment, and considered to be BACT and T-BACT. These engines also meet the requirements of the State ATCM 17 CCR, 93116, the ATCM for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater.

Regulation XI – *Source Specific Standards*

Rule 1160 – Internal Combustion Engines

The proposed new engines are not subject to District Rule 1160.

Applicability section, (a) states This rule applies to any <u>stationary</u> Internal Combustion Engine rated at 50 or more brake horsepower (bhp), when located within the Federal Ozone Non-Attainment Area, that does not meet the following: (iv) Any Internal Combustion Engine that is an Emergency Internal Combustion Engine provided that the Internal Combustion Engine does not operate more than 100 hours for non-emergency use in any rolling twelve (12) month period.

For full text, see: http://mdaqmd.ca.gov/home/showdocument?id=6631

The use of the emergency firewater pump engine shall be restricted by permit condition to no more than 50 hours in any rolling twelve (12) month period. Therefore, District Rule 1160 is not applicable to this device.

The two proposed portable air compressors are Portable and NOT Stationary; therefore, District Rule 1160 is not applicable to these engines either.

Regulation XII – *Title V Permits*

This regulation contains requirements for sources which must have a FOP. CEMEX currently has a FOP and is expected to comply with all applicable rules and regulations.

Rule 1201 – Federal Operating Permit Definitions.

CEMEX is defined as a federal Major Facility pursuant to this rule.

Rule 1203 – Federal Operating Permits.

The proposed new engines are subject to New Source Review and are being processed pursuant to District Rule 1302, Procedures, which allows for Significant Modifications to be processed concurrent with NSR actions. This procedure conforms to all applicable provisions of District Regulation XII. Further, this permit modification will be noticed similarly to District Rule 1207 requirements and in accordance with District Rule 1302.

This document represents the preliminary determination for the proposed modifications to the CEMEX FOP. This proposed Significant Modification will also be properly noticed pursuant to District Rule 1207, as required.

Rule 1205 – Modifications of Federal Operating Permits.

The proposed new engines are classified as a Significant Permit Modification to the CEMEX Federal Operating Permit (FOP), and therefore, this permit modification will be issued in accordance with the provisions of District Rule 1302 pursuant to Rule 1203.

Rule 1207 – *Notice and Comment*.

This NSR permitting action is being noticed concurrent with the Significant Modification of the CEMEX Federal Operating Permit. Notably, this affords the public the right to petition USEPA to reconsider the decision to not object to the permit action.

Rule 1208 – Certification.

CEMEX included a Certification of Responsible Official as required with the submitted application for the proposed equipment.

Rule 1211 – Greenhouse Gas Provisions of Federal Operating Permits.

CEMEX is an existing Major GHG Facility pursuant to Rule 1211; the addition of the proposed equipment will not trigger any additional GHG requirements.

Regulation XIII – *New Source Review*

Rule 1302 - Procedure.

This rule applies to all new or Modified Facilities and requires certain requirements to be fulfilled when submitting an application. All applicable requirements of this rule are discussed in this NSR document as part of the Analysis procedure. Certification of compliance with the Federal Clean Air Act, applicable implementation plans, and all applicable District rules and regulations have been addressed. The Authority to Construct (ATC) application package for the proposed equipment includes sufficient documentation to comply with Rule 1302(D)(5)(b)(ii). Permit conditions for the proposed engines will require compliance with Rule 1302(D)(5)(b)(iii).

Rule 1303 – *Requirements*. This rule requires BACT and offsets for selected facility modifications. The Proposed engines do trigger BACT and offset requirements, and will meet BACT requirements, additionally, the engines emissions must be fully offset for NOX, VOC, and PM10, which will be accomplished through use of their wholly owned ERC's; see previous sections of this document for additional details.

Rule 1304 - Emissions Calculations. The Proposed Emissions from the proposed modifications were calculated pursuant to section (B)(1)(a) of this rule.

Rule 1310 – *Federal Major Facilities and Modifications*. Emissions from the proposed new engines are determined to NOT be a Federal Major Modification as calculated in accordance with Rule 1310(E)(1)(a) as the Projected Actual Emissions, calculated pursuant to District Rule

1310 (E)(3)(c), will not exceed the Federal Major Modification Thresholds. Calculation methodologies are similar to those required by District Rule 1304(B)(1)(a).

Rule 1320 – *New Source Review for Toxic Air Contaminants*. Pursuant to the requirements of District Rule 1302, an applicability analysis of State and Federal air toxic regulations was conducted for the proposed modifications (State T-NSR and Federal T-NSR, respectively) and is discussed in further detail in this document.

Rule 1520 – Control of Toxic Air Contaminants from Existing Sources. This permit action is subject to Rule 1520, as CEMEX is an existing Major Facility as it has a facility PTE greater than ten (10) tons per year for CO, NO_x, SO₂, PM_{10/2.5}, and VOC, as well as has a PTE to emit a TAC. A facility prioritization analysis was conducted and it was determined that the Quarry facility will remain Low Priority Facility. The River Plant will remain a High Priority facility as its prioritization score is higher than 10. It should be noted however, that the addition of the proposed two portable air compressors will have an almost negligible effect to the existing health risks associated with the River Plant.

Regulation XVI, Rule 1600 – Prevention of Significant Deterioration

The purpose of this regulation is to set forth requirements for all new Major PSD Facilities and Major PSD Modifications which emit or have the potential to emit a PSD Air Pollutant pursuant to the requirements of 40 CFR 52.21. The proposed modification does not constitute a new Major PSD Facility or a Major PSD Modification; therefore, PSD does not apply to the proposed project. A detailed discussion of PSD occurs in the above sections of this document.

State Regulations

Regulation XI— Source Specific Standards:

District Rule 1160 —Internal Combustion Engines

This rule is applicable because CEMEX is located in a federal ozone non-attainment area.

Regulation XII — Federal Operating Permits

This regulation contains requirements for sources which must have a federal operating permit. The identified changes constitute a significant modification of the Title V permit. Specific requirements of Regulation XII are stipulated as shown below.

Rule 1202 — Applications

This rule designates that official applications will be used as necessary under Regulation XII and outlines the specified information which shall be included on the official application to the Air Pollution Control Officer to determine completeness as well as provides a timeline for that determination. This application includes official District forms. The District has evaluated this permitting action and concluded that the proposed project requires a significant Title V Modification and will be processed as such and in accordance with the procedure specified in the rule.

Rule 1203 — Federal Operating Permits (FOP)

The rule defines the permit operating term, stipulates the process by which FOPs, Significant Modifications to FOPs and Renewals of FOPs shall be issued. This rule further identifies restrictions on issuance, permit contents, operational flexibility, compliance certification, permit shield, and violation of permit conditions. The proposed FOP action is considered a significant permit modification. The District will submit this SOB and Draft Title V FOP to the EPA and CARB and make documents available for public review and comment within the specified comment period in accordance with the procedure outlined in Rule 1203(B)(1).

Rule 1205 — Modifications of Federal Operating Permits

This rule specifies the process by which FOPs are modified. The District will determine if the action constitutes a significant permit modification and will incorporate the changes as required by Regulation XII, as applicable.

Rule 1302 —Procedure

Rule 1302 outlines the procedures for preparing an ATC permit application.

Rule 1303 — Requirements

The BACT and offset requirements of Regulation XIII are addressed in this rule.

The BACT and offset requirements of Regulation XIII are addressed in this rule. BACT: Any new or modified Permit Unit which emits, or has the Potential to Emit, 25 lbs/day or more of any Nonattainment Air Pollutant shall be equipped with BACT. Plus any new or Modified Facility which emits, or has the Potential to Emit, 25 tpy or more of any Nonattainment Air Pollutant shall be equipped with BACT for each new Permit Unit. BACT applies to the new engines for PM10, NOx and ROC per Rule 1303 (A)(3) since the facility has a PTE > 25 tpy of these non-attainment pollutants.

Offsets: Based on the emissions analysis presented in earlier in this document, the facility is proposing the use of ERCs to offset the non-attainment pollutants. Rule 1305 describes the techniques for calculating the required offsets, including the use of ERCs.

Rule 1304 — Emissions Calculations

The CEMEX modification involves new equipment installation of one new 4SRB diesel fired emergency firewater pump engine, and two new diesel fired, Tier IV Final engine equipped portable air compressors. This rule outlines how to account for the associated emission increases.

Rule 1305 —Emissions Offsets

This Rule provides the procedures and formulas to determine the eligibility of, calculate the amount of, and determine the use of Offsets required pursuant to the provisions of District Rule 1303(B). The provisions of this rule have been followed in the netting analysis and a summary of those results are included in this document. Screen shot of that analysis are also provided in other section of this document. A live Excel spreadsheet is also available for review at the District office upon request.

Rule 1310— Federal Major Facilities and Modifications

This rule sets additional requirements for Federal Major Facilities and Modifications. CEMEX is an existing major federal source. Nonetheless, the modifications proposed in the CEMEX project is less than the federal significant emissions increase threshold, thus the project is not a Federal Major Modification, and this rule is not applicable.

Rule 1320 —New Source Review for Toxic Air Contaminants

This rule is applicable to all new, Modified or Relocated Facilities or Permit Units which emit or have the potential to emit any HAP, TAC, or Regulated Toxic Substance. MDAQMD Rule 1320 follows a step-wise process for evaluating applications for compliance with air toxics requirements. The initial steps are outlined below, including applicability of Federal and State T-NSR, and conducting HRAs, if applicable for each EU. Note: The prioritization score for the Quarry facility is quantified as Low Priority and therefore an HRA is not required for that facility. The River plant has previously submitted an HRA since their prioritization score was higher than 10; revised Emissions inventories were submitted as well. These items are presently under review at the MDAQMD. That said, the proposed portable air compressors will have an insignificant effect on the existing health effects from the River Plant.

Federal T-NSR

The CEMEX facility is currently considered a Major Source of HAP, and subject to Federal T-NSR. MDAQMD Rule 1320 requires that if a facility is subject to Federal T-NSR, any applicable NESHAP standards will apply. The proposed engines are required to comply with any applicable currently enforceable NESHAP standards, or a case-by-case NESHAP standard as determined by the MDAQMD. One MACT standards is applicable to the new engines, Subpart ZZZZ. The emergency firewater pump engine will comply with this requirement and NSPS, Subpart IIII.

State T-NSR Program Analysis (State T-NSR)

This subsection requires the applicant and MDAQMD to identify and include in the permitting analysis any applicable and currently enforceable California Air Toxics Control Measures (ATCM). The proposed diesel fired Reciprocating IC Engines are subject to a California ATCM's as previously discussed.

Health Risk Assessment (HRA)

Under the State T-NSR, Rule 1320 requires evaluation of each Emission Unit using prioritization scoring and an HRA, if the prioritization score is high. The Quarry facility has a prioritization score of less than 1, and therefore an HRA is not required for this facility. The River plant has prioritization score that is over 10 and therefore considered a High Priority facility. As previously discussed, an HRA for this facility has been submitted and is under review.

Regulation XIV — Emission Reduction Credit Banking

Rule 1402 established an Emission Reduction Credit Registry by which emission reduction credits can be banked by a facility that has met all the applicable requirements of the rule. CEMEX is proposing to use ERCs transferred from the SJVAPCD. Copies of the ERCs can be found in the appendix section of this document as part of the CEMEX submitted application.

The use of ERC's from an upwind air district, which has a non-attainment status that is higher than the receiving District, is allowed by rule as previously discussed.

CEMEX has proposed to use these purchased and transferred credits to offset the proposed new engines. The MDAQMD has reviewed and approved that request.

The emissions, ERC analysis, and ERC balance, is shown in greater detail earlier in this document.

Rule 1520 — Control of Toxic Air Contaminants from Existing Sources

This rule applies on a facility-wide basis requiring public notice and/or risk reduction at elevated levels of health risk for existing facilities based on actual levels of TAC emissions. 2018 emissions inventory resulted in a Prioritization score for Cancer of 1.2544 for the Quarry Plant; this prioritization score is less than 1. Therefore, the facility is considered an "Low Priority" facility, and the associated health risk is considered acceptable. The River plant has a prioritization of over 10, and as previously discussed, an HRA has been submitted and is under review by the MDAQMD. That said the portable air compressors are considered Toxic Best Available Control Technology (T-BACT), as they are Tier IV Final Engines, which are considered the least emitting equipment available for this class and category of equipment.

Regulation XVI — Prevention of Significant Deterioration (PSD)

This rule is applicable to projects that have emissions of attainment pollutants greater than the new Major PSD Facilities and Major PSD Modifications thresholds. An applicability assessment of PSD has been performed and it is determined that the proposed new engines are not a PSD Major Modification.

8. NSR Preliminary Decision - Conclusion

The District has reviewed the proposed new emission unit's applications for CEMEX and conducted a succinct written analysis as required by District Rule 1302, section (D)(1)(b) and District Rule 1203, section (B)(1)(a). The District has determined that the proposed equipment and application are in compliance with all applicable District, State, and Federal rules and regulations as proposed and when operated in terms of the permit conditions stated below.

9. Operating Conditions

The following equipment descriptions and operating conditions will be placed on the District's Authorities to Construct (ATC) Permits' and in Part III of CEMEX's FOP. Note that all new and modified equipment descriptions and permit conditions will be in redline/strikethrough form on the Draft Title V Permit.

Description: DIESEL IC ENGINE, EMERGENCY FIREWATER PUMP consisting of: Year of Manufacture is 2013. Engine is a certified Tier III 4-Stroke Rich Burn (4SRB) diesel engine, EPA Family DJDXL09.0114; EPA Certificate Number DJDXL09.0114-005; Engine Model Year 2013; DOES NOT HAVE A CORRESPONDING CARB EO CERTIFICATE. Engine meets

USA EPA (NSPS) Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Sub Part IIII). Engine Exhaust Flow is TBD cfm at TBD Degrees F.

Stack height is TBD feet high and Stack Diameter is TBD inches. Equipment elevation is 3620 feet above sea level.

One John Deere, Diesel fired internal combustion engine Model No. 6090HFC47A and Serial No. RG6080L117349, After Cooled, Electronic Control Module, High Pressure Fuel Injection (also EM), Turbo Charged, producing 422 bhp with 6 cylinders at 1760 rpm while consuming a maximum of 17 gal/hr. This equipment powers a Pump Model No. and Serial No, rated at.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
co	0.7	gm/bhp-hr
NOx	2.6	gm/bhp-hr
NOx+NMHC	2.7	gm/bhp-hr
PM10	0.11	gm/bhp-hr
VOC	0.1	gm/bhp-hr

Conditions:

- 1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

 [District Rule 1302(C)(2)(a)]
- 2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time. [40 CFR 60.4209; Title 17 CCR 93115.10(d)]
- 3. This engine shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines: a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and, b. A cetane index or aromatic content, as follows: 1. A minimum cetane index of 40; or, 2. A maximum aromatic content of 35 volume percent.
- [17 CCR 93115.5(a) and 40 CFR 80.510(c)] Note: Use of CARB certified ULSD fuel satisfies the above requirements.
- 4. This unit shall be limited to emergency use only, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per rolling consecutive twelve month period for testing and maintenance, unless NFPA-25 (current edition) authorizes additional time: If the 50 hour limit is exceeded due to NFPA requirements, the owner/operator is to have the authorizing section of NFPA 25 available for review at all times. Time required for source testing will not be counted toward the 50 hour rolling annual limit. [17 CCR 93115.6(b), District Rule 204]

5. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below: a. Date of each use and duration of each use (in hours per hour meter); b. Reason for use (testing & maintenance, emergency, required emission testing); c. Rolling consecutive twelve month period operation in terms of fuel consumption (in gallons) or total hours; d. Records of all maintenance and inspections; and, e. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log).

[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 60.4214, 17 CCR 93115.10(f), District Rule 204]

- 6. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines, and 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. [District Rule 204]
- 7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

Description: Two-DIESEL IC ENGINE, PORTABLE AIR COMPRESSORS, each, consisting of: A certified Tier 4f 4SRB, diesel-fueled engine manufactured in 2016. Engine Exhaust Flow is TBD cfm at TBD Degrees F. Stack height is TBD feet high and Stack Diameter is TBD inches. Equipment elevation is 3620 feet above sea level. One John Deere, Diesel fired internal combustion engine Model No. 6090HFC47A and Serial No. R06090L117349, After Cooled, Diesel Oxidation Catalyst, Diesel Particulate Filter, Selective Catalytic Reduction, producing 250 bhp with 6 cylinders at 2100 rpm while consuming a maximum of 10.1 gal/hr. This equipment powers a Compressor Model No. and Serial No., rated at .

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	2.610	gm/bhp-hr
NOx	0.298	gm/bhp-hr
PM10	0.015	gm/bhp-hr
SOx	0.004	gm/bhp-hr
VOC	0.142	gm/bhp-hr

Conditions:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[District Rule 1302(C)(2)(a)]

2. This diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. This equipment must be moved within this facility or moved to another facility annually. The amount of time that the equipment is kept in the storage location does not count towards the residence requirement so long as the equipment is not set up in an operational configuration.

[Title 17 CCR 93116.2(a)(29)]

3. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines.

[Title 17 CCR 93116.3(a)

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[District Rule 1302(C)(2)(a)]

- 5. The owner/operator shall maintain an operations log for this unit, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
- a. Date of each use and duration of each use (in hours);
- b. Reason for use (regular prime use, emergency, testing & maintenance, etc.);
- c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
- d. Fuel sulfur concentration (may use the supplier's certification of sulfur content if it is maintained as part of this log).

[District Rule 1302(C)(2)(a)]

- 6. This portable, diesel-fired engine is certified to Tier 4 final emission standards and is therefore exempted from the requirements of section 93116.4 of Title 17 CCR 93116. To establish this exemption the Responsible Official (owner/operator) must provide the Certification Statement to the District and CARB when the engine initially satisfies the requirements of section 93116.4(a). This certification statement must list the following for each engine:
- a. The District permit number; and,
- b. The serial number.

Compliance Statements should be sent to the District via mail or electronically to reporting@mdaqmd.ca.gov

Compliance Statements should be mailed to CARB at: ARB/PERP
P.O. Box 2038
Sacramento, CA 95812
[Title 17 CCR 93116.4(a)and(e)]

7. This unit is subject to the requirements of Title 17 CCR 93116, the Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater.

[Title 17 CCR 93116]

- 8. This engine shall not operate for more than 480 hours in any consecutive 12 month period. [District Rules 1302 and 1320]
- 9. A facility wide Comprehensive Emission Inventory Report (CEIR) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

C. Title V Permit/FOP – Significant Permit Modification

1. Proposed Changes to FOP

The owner/operator of CEMEX Construction Materials Pacific LLC, has submitted an application for Significant Permit Modification in parallel with the application for new District Permits associated with three new engines. The District is processing the proposed FOP changes in accordance with procedures specified in District Rule 1302(D)(1)(d). This preliminary decision also serves as the statement of basis and draft FOP.

2. Title V/FOP – Conclusion

The District has reviewed the application and proposed modifications to the CEMEX Federal Operating Permit. The District has determined that the proposed modification is in compliance with all applicable District, State, and Federal rules and regulations as proposed when operated in the terms of the operating conditions given herein.

D. Comment Period and Notifications

1. Public Comment

This preliminary determination will be publicly noticed on or before 07-22-19. The 30-Day Public Commenting Period that will end at COB on 08-21-19.

Noticing Methods include the following, per District Rule 1207 (A)(1)(a) and District Rule 1302(D)(2) and (3):

- Published in newspapers of general circulation Riverside Press Enterprise (Riverside County) and the Daily Press (San Bernardino County) on or before 07-22-19.
- Mailed and/or emailed to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in Appendix B) on or before 07-17-19.
- Posted on the MDAQMD Website at the following link: http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry

2. Notifications

The preliminary determination was submitted via e-mail to EPA and CARB pursuant to District Rule 1207 for a forty-five (45) day review period on or before 07-17-19. The final modified FOP shall be issued on or about 09-03-19.

All correspondence as required by District Rules 1302 and 1207 were forwarded electronically to the following recipients:

Director, Office of Air Division
United States EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
R9airpermits AV MD@epa.gov
Chief, Stationary Source Division
California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812
Permits@arb.ca.gov

Field Operations Manager C/O Alejandra V Silva, via e-mail CEMEX Construction Materials Pacific LLC 16888 North E Street Victorville, CA 92392

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Appendix A Application



July 1st, 2019

Mr. Sam Oktay Mojave Desert Air Quality Management District (MDAQMD) 14306 Park Avenue Victorville, CA 92392-2310 soktay@mdaqmd.ca.gov

via e-mail

Subject: Authority to Construct Permits: E013353, B013522, and B013523
CEMEX Construction Material Pacific, LLC
CEMEX – Black Mountain Quarry Plant and River Plant
Application for Two Portable Compressor Engines and One Emergency Fire Water
Pump

Dear Mr. Oktav:

CEMEX Construction Material Pacific, LLC (CEMEX), is submitting the enclosed update to the Authority to Construct Permit Application for the CEMEX - Black Mountain Quarry Plant (Apple Valley) and the River Plant (Victorville) facilities both located in San Bernardino County, California. The original application was submitted on May 1, 2019 to authorize the operation of two diesel-fired portable compressor engines and an emergency fire water pump.

The addition of these new emissions sources requires the use of Emission Reduction Credits (ERCs). This update addresses the use of ERC's for VOC offsets in addition the ERC's already represented for other pollutant offsets. Enclosed with the Permit Application is detailed information of the emission data for each piece of equipment and the emission offset documentation.

A Title V - Permit Amendment/Modification Form (Form 1202-N) has been submitted under a separate cover letter to supplement the attached Authority to Construct Permit Application.

If you have any questions or require additional information, please do not hesitate to contact me by email at alejandray.silva@cemex.com or by phone at (760) 381-7649.

Sincerely

Alejandra V Silva Environmental Manager

Enclosures

c: Ms. Anna de la Garza (POWER Engineers) via email Ms. Darlene Marie Bray, Director - Environmental, CEMEX USA (via e-mail) Victorville Plant

16888 North E Street, Victorville, CA 92394-2999, Phone (760) 381-7600, Fax (760) 245-0191

AST 357-0932 157417.01.01 (2019-04-12) AG

WWW.POWERENG.COM

July 2019

AUTHORITY TO CONSTRUCT PERMIT APPLICATION

CEMEX USA CEMEX Construction Material Pacific, LLC CEMEX – Black Mountain Quarry Plant and River Plant San Bernardino County, California



Submitted To:

Mojave Desert Air Quality Management District 14306 Park Avenue Victorville, California 92392-2310

PROJECT NUMBER: 157417



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AST 357-0932 157417.01.01 (2019-04-12) AG

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1.0 INTRODUCTION

1.1 Project Overview

CEMEX Construction Material Pacific, LLC (CEMEX) owns and operates CEMEX - Black Mountain Quarry Plant (Apple Valley) and River Plant (Victorville) both located in San Bernardino County, California. The Apple Valley site is a cement plant that consists of two kilns (Kiln Q2 and Kiln Q3) and associated clinker coolers and activated carbon injection (ACI) system for Kiln Q3. The River Plant site is a plant that consists of cement grinding and finishing operations only.

The purpose of this submittal is to request authorization to install and operate two portable compressor engines and an emergency fire water pump. The two diesel-fired portable compressor engines will be moved among each facility depending on the need at either location. The emergency fire water pump will be located at the Apple Valley site. This Authority to Construct Permit Application includes documentation as requested by the Mojave Desert Air Quality Management District (MDAQMD).

The addition of these new emissions sources requires the use of Emission Reduction Credits (ERCs) and is considered a Significant Title V Modification. A Title V - Permit Amendment/Modification Form (Form 1202-N) was submitted to MDAQMD under a separate cover letter.

San Bernardino County is currently classified as nonattainment for ozone, particulate matter with an aerodynamic diameter less than 10 microns (PM_{10}), and particulate matter with an aerodynamic diameter less than 2.5 microns ($PM_{2.5}$). Victorville is a minor source under the Prevention of Significant Deterioration (PSD) program and a major source under the Federal Operating Permits program (Title V) program.

2.0 EQUIPMENT AND SITE PROCESS INFORMATION

2.1 Equipment Description and Operating Schedule

Each portable compressor engine (COMP1 and COMP2) is a 250 horsepower (hp) John Deere, model number 6068, and are used throughout the site as an extra power source for operations. COMP1 and COMP2 are prime, portable engines and each engine is expected to operate no more than 480 hours per year or 40 hours per month. These engines will operate 52 weeks out of the year depending on the site's operational needs.

The emergency fire pump engine (ENG-EGEN) is a 422 hp John Deere, model number 6090HFC47A, and provides water to the emergency fire water system in case of a fire at the facility. ENG-EGEN is an emergency, standby engine. This engine is expected to operate less than 50 hours per year and one week out of the year for testing purposes.

2.2 Process Description

Each portable compressor engine, COMP1 and COMP2, will be fueled with diesel fuel and they will be moved to various locations at each site and provide additional power to different operation equipment depending on the operational needs of the facility. COMP1 and COMP2 will emit nitrogen oxides (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), PM_{2.5}, PM₁₀, sulfur dioxide (SO₂), formaldehyde, benzene, and other hazardous air pollutants (HAPs). Total emissions from both COMP1 and COMP2 are expected to be less than 0.90 tons per year (tpy) or 0.45 tpy each.

Diesel fuel is routed to the emergency fire pump engine, ENG-EGEN, which drives the pump that provides water to the emergency fire sprinkler system. Emissions will be emitted from the engine. The emergency fire pump engine will emit NO_x, CO, VOC, PM_{2.5}, PM₁₀, SO₂, formaldehyde, benzene, and other HAPs. Total emissions from ENG-EGEN are expected to be less than 0.20 tpy.

2.3 Process Weight and Fuels Burned

Each portable compressor engine has a fuel consumption rate of 1,498,000 British thermal units per hour (Btu/hr). COMP1 and COMP2 are diesel-fired engines and burn 10.7 gallons of fuel per hour.

The emergency fire pump engine has a fuel consumption rate of 2,380,000 Btu/hr. ENG-EGEN is a diesel-fired engine and burns 17 gallons of fuel per hour.

2.4 Best Available Control Technology (BACT)

Per Rule 1303(A) BACT is required for any new Permit Unit which emits, or has the Potential to Emit, 25 pounds per day or more of any Nonattainment Air Pollutant. Per the attached calculations in Appendix A, ENG-EGEN only has the potential to exceed 25 lbs per day of NO_x if it is run for more than 11 hours in a given day. This situation should not occur unless there is an emergency. Thus, CEMEX proposes that current proposed emission rates and use of this engine as an emergency engine meets BACT, as applicable.

3.0 EMISSIONS DATA

3.1 Emission Sources

This section provides the calculation methodology used to estimate emissions from the proposed project. Hourly emissions were calculated using an emission factor either provided by the manufacturer or obtained from the EPA's AP-42 Chapter 3 Guidance. Annual emissions were calculated based on the expected annual hours of operation for each of the engines. Detailed emission calculations are included in Appendix A.

3.2 Offsets Evaluation

The site-wide emissions, including the potential emissions from the two portable compressor engines and the emergency fire pump engine, are above the offset threshold amounts as per Rule 1303(B); therefore, offsets are required for this project for increases associated with non-attainment pollutants and their precursors as listed in Rule 1303(B). CEMEX is a VOC major source; therefore, all new VOC emissions must be offset. The number of offsets needed for the applicable pollutant emissions produced by the three engines was calculated based on the potential tons per year of each pollutant. Detailed calculations are included in Appendix A and summarized below.

Pound per Year Estimated Project Emissions for Applicable Pollutants

EPN	NOx	voc	PM ₁₀	SOx
ENG-EGEN	122	4	5	1
COMP 1	79	38	4	1
COMP 2	79	38	4	1
Total	280	79	13	3
Total ERCs Required (1.3:1)	364	102	17	3
Total ERCs for VOC Emissions (2:1)	568	N/A	N/A	N/A

ERCs were purchased from Sierra Power Corporation and transferred to CEMEX to offset the applicable annual pollutant emissions produced by the additional engines. The ERCs were transferred from San Joaquin Valley Air Pollution Control District (SJVAPCD) to MDAQMD. A copy of the ERC transfer package is included in Appendix C. The following ERCs were transferred to CEMEX from Sierra Power Corporation:

- 23 pounds PM₁₀;
- 878 pounds NO_x, and;
- 4 pounds SO_x.

Note that no VOC ERCs were purchased from Sierra Power Corporation. CEMEX will use NO_x ERCs to offset the new VOC emissions. NO_x , PM_{10} , and SO_x ERCs will be applied at an offset ratio of 1.3 to 1.0 for project annual emissions as required by Rule 1305(C). An additional 2:1 offset ratio will be applied to

the NO_x ERCs to account for the VOC project annual emissions. Also note that purchased ERCs exceed the calculated annual project emissions.

4.0 SITE LOCATION

Apple Valley is in San Bernardino County, approximately 11 miles northeast of Bell Mountain, California.

Address: 25220 Black Mountain Quarry Road, Apple Valley, California 92307

4.1 Receptors

Sycamore Rocks Elementary School is the nearest school to the Apple Valley site and is approximately 29,637 feet away. The closest business is approximately 20,660 feet away and closest residence is approximately 18,500 feet away (see attached area map).

4.2 Scaled Area Map and Equipment Location Map

A scaled area map that shows the location of the Apple Valley site and the nearest receptors is included in this section as Figure 1. An equipment location map that shows the approximate location of the emergency fire pump engine is included in this section as Figure 2. The two portable compressor engines will move throughout the Apple Valley and Victorville facilities. In general, one of the compressors will be located at the Apple Valley site and the other one will be located at the Victorville site.

FIGURE 1 AREA MAP

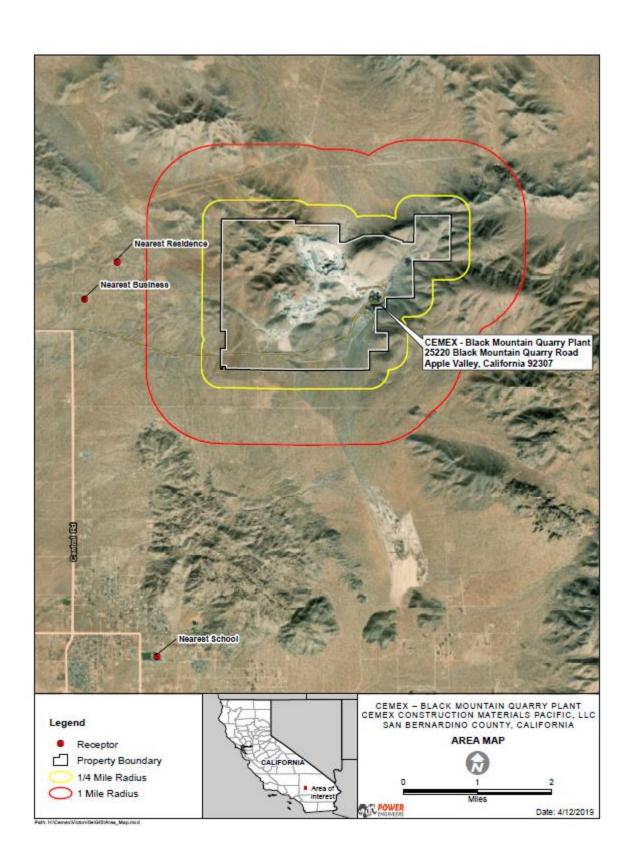
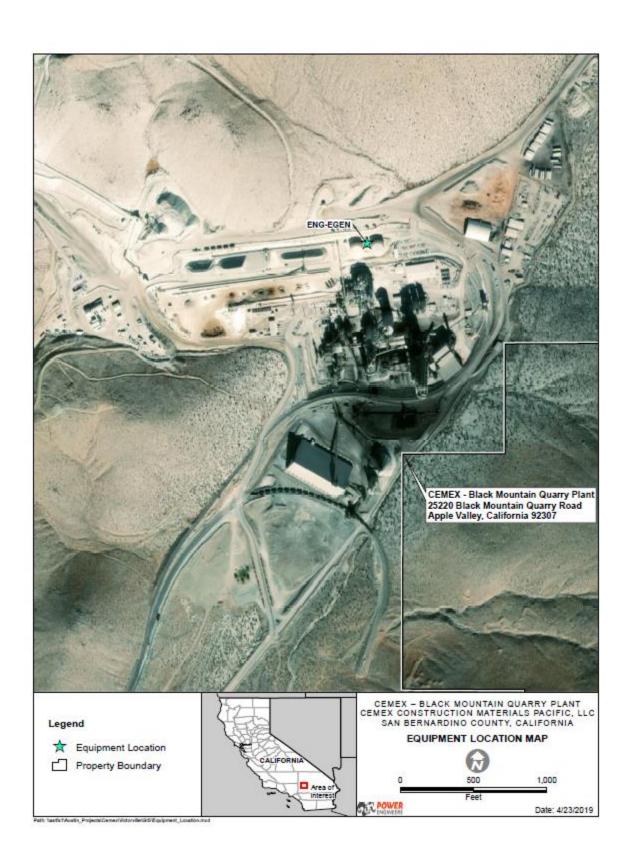


FIGURE 2 EQUIPMENT LOCATION MAP



APPENDIX A EMISSION CALCULATIONS

APPENDIX A

CEMEX - Black Mountain Quarry and River Plant New Equipment

Prepared by: Samuel Oktay, PE

Permit Number	CO Lbs/Yr	SOX Lbs/Yr	NOx Lbs/Yr	VOC Lbs/Yr	PM10 Lbs/Yr	TOXICS Lbs/Yr
E013353	31	0.17	121.53	3.4723	4.86119	4.8612
B013522	690	0.98	78.91	37.4829	3.94557	3.9456
B013523	690	0.98	78.91	37.4829	3.94557	3.9456
Total Lbs/Yr	1412.20	2.14	279.35	78.44	12.75	12.75
ERC's Required (Apply 1.3 to 1						
Ratio for Criteria Pollutants)	1835.86	2.78	363.16	101.97	16.58	NA
NOX for VOCs at an additional 2:1 ratio	NA.	NA	203.94	203.94	NA	NA
Total NOX Required			567.10			
SJVAPCD PM10 ERCs from Certificate No. 5-4847-4	NA	NA	NA	NA	23	NA
SJVAPCD SOx ERCs from Certificate No. 5-4585-5	NA.	4	NA	NA	NA	NA
				101		
878 pounds of SJVAPCD NOx ERCs, or 0.439 tons of MDAQMD NOx ERCs						
from Certificate No. 5-4990-2	NA	NA	878	NA	NA	NA
Delenes Beneining	NA	4.00	240.00	Included in NO	0.40	118
Balance Remaining	NA NA	1.22	310.90	Included in NOx	6.42	NA

CEMEX - Black Mountain Quarry Plant (Apple Valley)

Application No/Permit No	MD1000002306	Units	1000 GAL/HR	1000 GAL/YR
Permit No.	E013353			
Equipment Cerified Tier III	John Deere			
Make				
Model	6090HFC47A			
EPA Family	DJDXL09.0114			
CARB EO	NA			
Fuel rate	17.00	gal/hr	0.017	0.85
Engine Kw	315	kW		
Engine bhp	422	bho		
Daily Operation	1	hr/day		
Annual Operation	50	hrs/yr		

Prepared by: Samuel Oktay, P.

https://www.deere.com/en/generator-drive-engines/eu-stage-ii-a/powertech-e-9-01-htg84

POLLUTANT	CAS#	Emission Factor		Lbs/1000-Gals	PTE (lbs/Hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1Kw= 1.341 bhp)		
CRITERIA	CRITERIA										
0	42101	0.9000	g/Kw-hr	36.7653	0.6250	0.62501	31	0.0156	0.7		
SOx	42401	0.0050	g/Kw-hr	0.2026	0.0034	0.00344	0.172	0.0001	0.004		
NOX	42603	3.5000	g/Kw-hr	142.9763	2.4306	2.43060	122	0.0608	2.6		
NMHC (VOC)	43104	0.1000	g/Kw-hr	4.0850	0.0694	0.06945	3	0.0017	0.1		
MOX + NMHC (VOC)		3.7000	g/Kw-hr	151.1463	2.5695	2.56949	128	0.0642	2.7		
PM _{so}	85101	0.1400	g/Kw-hr	5.7191	0.0972	0.09722	5	0.0024	0.11		
PM2.5	88101	0.1400	g/Kw-hr	5.7191	0.0972	0.09722	5	0.0024	0.11		
TOXICS											
Diesel Particulate	9901			5 7191	9.72E-02	9.72E-02	4.86E+00				

PTE Daily Emissions (lbs/day) using Lbs/1000_Gals per Day					
0.625011					
0.003444					
2.430596					
0.069446					
2.569488					
0.097224					
0.097224					

Page 2 of 7

NOTES

Emission Factors are from Manufacturers Spec Sheet except SOx, which is calculated below.

*Data used to calculate SOx Emission Factors

Fuel rate 17 gal/hr

Density of Ultra-low Sulfur Diesel No. 2
6.76 lbs/gal

Sulfur fraction of Ultra-low Sulfur Diesel No. 2
0.000015 gS 0.0015% Rule M 431 Requires 0.05 % Max

Molecular Weights
Sulfur 32.06 g/mol
Sulfur dioxide 64.06 g/mol
1.998128509 gSO2/gS

Horsepower of Engine 315 Kw
0.003174603 1/Kw

Conversions 453.6 g/lbs

Equation used 17 gal/hr X 6.76 lbs/gal X 453.515 g/lb X 0.0015gS/100g (sulfur) X 1/315kW X 64.06 gSO2/32.06gS =

50x Emissions = 0.0050 gSO2/Kw-hr

1.341 HP = 1 Kw

Page 3 of 7

CEMEX - Black Mountain Quarry and River Plant Portable Air Compressor

Prepared	hur O	a married	Others	

Application No/Permit No		Units	1000 GAL/HR	1000 GAL/YR
Permit No.	8013522			
Equipment Tier IV Final				
Make	John Deere			
Model	6068			
EPA Family				
CARB EO				
Fuel rate	10.10	gal/hr	0.0101	88.476
Engine Kw	186.43			
Engine bhp	250			
Daily Operation	24	hr/day		
Annual Operation	480	hrs/yr		

POLLUTANT	CAS#	Emissi	ion Factor	Lbs/1000-Gals	PTE (lbs/Hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1Kw= 1.341 bhp)	
CRITERIA	CRITERIA									
CO	42101	3.50	g/kW-hr	7.8041	0.0788	34.5237	690	0.3452	2.610	
SO _x	42401	0.0050	g/kW-hr	0.0111	0.0001	0.0491	1	0.0005	0.004	
NOX	42603	0.40	g/kW-hr	0.8919	0.0090	3.9456	79	0.0395	0.298	
NMHC (VOC)	43104	0.1900	g/kW-hr	0.4237	0.0043	1.8741	37	0.0187	0.142	
PM ₁₀	85101	0.0200	g/kW-hr	0.0446	0.0005	0.1973	4	0.0020	0.015	
PM2.5	88101	0.0200	g/kW-hr	0.0446	0.0005	0.1973	4	0.0020	0.015	
TOXICS										
Provident Control of the					4 505.01	1.000.03	2 000.00			

PTE Daily Emissions (lbs/day) using Lbs/1000_Gals per Day
1.891710185
0.002691108
0.21619545
0.102692839
0.010809772
0.010809772

Page 4 of 7

Emission Factors are from Off-Road Engine Standards for Tier IV Final

*Data used to calculate SOx Emission Factors

10.1 gal/hr

Density of Ultra-low Sulfur Diesel No. 2

6.76 lbs/gal

Sulfur fraction of Ultra-low Sulfur Diesel No.2 0.000015 gS

0.0015% Rule M 431 Requires 0.05 % Max

Molecular Weights

32.06 g/mol 64.06 g/mol 1.998128509 gSO2/gS Sulfur Sulfur dioxide

Horsepower of Engine

186.4280388 Kw 0.005364 1/Kw

453.6 g/lbs

Equation used 10.1 gal/hr X 6.76 lbs/gal X 453.515 g/lb X 0.0015g5/100g (sulfur) X 1/186.43kW X 64.06 gSO2/32.06g5 =

0.0050 gSO2/Kw-hr

SOx Emissions = 1.341 HP = 1 Kw

Page 5 of 7

CEMEX - Black Mountain Quarry and River Plant Portable Air Compressor

Prepared by: Samuel Oktay, PE

Application No/Permit No		Units	1000 GAL/HR	1000 GAL/YR
Permit No.	B013523			
Equipment Tier IV Final				
Make	John Deere			
Model	6068			
EPA Family				
CARB EO				
Fuel rate	10.10	gal/hr	0.0101	88.476
Engine Kw	186.43			
Engine bhp	250			
Daily Operation	24	hr/day		
Annual Operation	480	hrs/yr		

POLLUTANT	CAS#	Emissi	on Factor	Lbs/1000-Gals	PTE (lbs/Hr)	PTE Daily Emissions (lbs/day)	PTE Annual Emissions (lbs/year)	PTE Emissions (tons/year)	Emission Factor g/bhp-hr (1Kw= 1.341 bhp)	
CRITERIA	GRITERIA									
CO	42101	3.50	g/kW-hr	7.8041	0.0788	34.5237	690	0.3452	2.610	
SO _x	42401	0.0050	g/kW-hr	0.0111	0.0001	0.0491	1	0.0005	0.004	
NOX	42603	0.40	g/kW-hr	0.8919	0.0090	3.9456	79	0.0395	0.298	
NMHC (VOC)	43104	0.1900	g/kW-hr	0.4237	0.0043	1.8741	37	0.0187	0.142	
PM ₁₀	85101	0.0200	g/kW-hr	0.0446	0.0005	0.1973	4	0.0020	0.015	
PM2.5	88101	0.0200	g/kW-hr	0.0446	0.0005	0.1973	4	0.0020	0.015	
TOXICS										
Diesel Particulate	9901			0.0446	4.50E-04	1.08E-02	3.95E+00			

	PTE Daily Emissions (lbs/day) using Lbs/1000_Gals per Day
ı	
Ì	1.891710185
	0.002691108
	0.21619545
	0.102692839
	0.010809772
	0.010809772

Page 6 of 7

Emission Factors are from Off-Road Engine Standards for Tier IV Final

*Data used to calculate SOx Emission Factors Fuel rate 10.1 gal/hr

Density of Ultra-low Sulfur Diesel No. 2

Sulfur fraction of Ultra-low Sulfur Diesel No.2 0.000015 gS

0.0015% Rule M 431 Requires 0.05 % Max

Molecular Weights Sulfur Sulfur dioxide 32.06 g/mol 64.06 g/mol 1.998128509 g5O2/g5

Horsepower of Engine

186.4280388 Kw 0.005364 1/Kw

453.6 g/lbs

Equation used 10.1 gal/hr X 6.76 lbs/gal X 453.515 g/lb X 0.0015g5/100g (sulfur) X 1/186.43kW X 64.06 gSO2/32.06g5 =

0.0050 gSO2/Kw-hr

1.341 HP = 1 Kw

Page 7 of 7

APPENDIX B EQUIPMENT SPECIFICATIONS

APPENDIX B

Rating Specific Emissions Data - John Deere Power Systems



Nameplate Rating Information

m gr	Clarke Model
Po	wer Rating (BHP / kW)
C	ertified Speed (RPM)

Rating Data

Rating Certified Power (kW)			6090HFC47A		
			315		
Rated Speed			1760		
Vehicle Model	Number		Clarke Fire P	ump	
Units	g/kW-hi		g/hp-hr		
THE COLUMN TWO IS NOT			0.0		

Units	g/kW-hr	g/hp-hr	
NOx	3.5	2.6	
HC	0.1	0.1	
NOx + HC	3.7	2.7	
Pm	0.14	0.11	
co	0.9	0.7	

Certificate Data

Engine Model Year	2013		
EPA Family Name	DJDXL09.0114		
EPA JD Name	450HAB		
EPA Certificate Number	DJDXL09.0114-005		
CARB Executive Order	Not Applicable		
Parent of Family	6090HFG84A		

Units	g/kW-hr 3.8 0.1		
NOx			
нс			
NOx + HC	3.9		
Pm	0.13		
CO	0.9		

^{*} The emission data listed is measured from a laboratory test engine according to the test procedures of 40 CFR 89 or 40 CFR 1039, as applicable. The test engine is intended to represent nominal production hardware, and we do not guarantee that every production engine will have identical test results. The family parent data represents multiple ratings and this data may have been collected at a different engine speed and load. Emission results may vary due to engine manufacturing tolerances, engine operating conditions, fuels used, or other conditions beyond our control.

This information is property of Deere & Company. It is provided solely for the purpose of obtaining certification or permits of Deere powered equipment. Unauthorized distribution of this information is prohibited.

JDPS 2/28/2013



Preliminary Determination/Decision - Statement of Basis CEMEX Construction Materials Pacific LLC Last Revision: July 16, 2019

ATLAS COPCO XAVS 650 JD8 & XAS 900 JD8 COMPACT, VERSATILE AND POWERFUL

Need Air? The Atlas Copco XAVS 650 JD8 & XAS 900 JD8

air compressor are truly the most versatile in their class with variable flow and pressure setting as standard features. Increasing the versatility creates a machine that is ready for a wider range of applications, in turn increasing your return on investment.

VERSATILITY

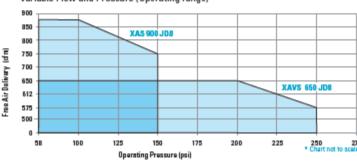
USER-FRIENDLY CONTROLS

The Xc2003 controller has a full color LCD screen that displays all the necessary information to get the job done quickly, efficiently and safely. The regulation system utilizes a single pneumatic and safely the operator can easily dial in the desired pressure, and the controller will automatically adjust the output to deliver the flow while still maintaining industry leading fuel efficiency.

VARIABLE VERSATILITY

The variable pressure and flow on these two models make them a fit for a wide range of applications. The XAVS650 JD8 has a higher operating pressure allowing for up to 250psl. The combined features of the higher pressure and small foot print will open drilling of smaller diameter holes in applications such as geothermal and directional drilling.

Variable Flow and Pressure (Operating range)





EFFICIENT AIR

The John Deere 6068 Tier 4 Final engine is mounted with an Atlas Copco C146 air element. The single stage C146 element is one of the most efficient screw compressor designs on the market today. This translates to less energy loss in the system and equates to lower fuel consumption per CFM.

SIMPLIFIED MAINTENANCE

Servicing through large oversized gullwing doors provides quick access to components, including the air end, engine maintenance and electrical components. Drains for water and oil are easy to reach and are plumbed outside of the containment basin for draining. With 500 hour service intervals on the engine and 1000 hour on the compressor this machine will be the workhorse of your fleet.



HEAVY DUTY ENCLOSURE

The compressors are on built a newly designed compact single axie platform with heavy gauge, powder coated galvanealed steel. The base frame is built with a rigid structure and incorporates 100% fluid containment as a standard feature on all machines. The superior fit and finish on the enclosure provides sound attenuation, as well as protection from the elements.

Technical data

Model		XAVS	56 JDs	XASe	oo JDs
Actual free air delivery (Standard air)	CFM*	575	650	750	867
Actual free air delivery (Aftercooled air)**	CFM*	545	520	720	837
Working pressure	psi (Bar)	psi (Bar) 250 200		150	100
Working pressure range	psi (Bar)	58 - 275		58 - 175	
Discharge outlet quantity	2	3 standard, 4 w/ aftercoole		r	
Discharge outlet size	inches	1x11/2" & 2x3/4"			
Regulation system		Propunation			

Engine					
Model	John Deere	6068			
Displacement	L	6.8			
Cylinders	1				
Tier	US EPA	Tier 4 Final			
Exhaust after-treatment		DOC/DPF/SCR			
HP		250			
Rated speed (High)	RPM	2100			
Rated speed (Low)	RPM	1300			
Fuel tank capacity	Gal (L)		88 (2	333)	
Fuel consumption @ 100% load	Gal/hr (L/hr)	10.1(38.2)	10.5(39.7)	10.7(40.5)	10.7(40.5)
Fuel autonomy @ 100% load	Hours	8.7 8.4 8.2 8		8.2	
DEF tank capacity	Gal(L)	11.3(43)			
DEFautonomy @ 100% load***	Hours	>24			

Unit dimensions - LxWxH			
Single axle trailer	Inches	203 x 80 x 86	
Weight (Wet)	lbs (kg)	7,980 (3,620)	
Support mounted	Inches	145.5 x 66.5 x 78	
Weight (Wet)	lbs (kg)	TBA	

- *Measured according to ESI 1717, 2005 unset S. Dependent or unbleed conditions and imagestatum.

 **Advancedor 2 as optional faction

 **Advancedor 2 as optional faction

 **Electric entities to ESE 6 feet Consumption Actual amount will easy based on environmental conditions, USF age and quality.

Photos and Bustrations contained herein hight depict products with optional analor eaths components which are not included with the standard version of the product and therefore, are not included in a purchase of such product unless the customer specifically purchases such optionalizating components. We reserve the right to change the specifications and design of products described in this filterature Without notice. Not all products are discussed in all markets.

STANDARD FEATURES

- . Compact, sound attenuated, corrosion resistant enclosure
- · Variable operating pressure and flow settings
- . 100% fluid containment and Tier 4 Final emissions
- FuelXperf^{rM}

BENEFITS

- . Extremely durable, portable design to be used for everything from oil patch applications to bridge remediation.
- . The versatility of the Xc2003 controller gives you the flexibility to tune your machine to a wider range of applications. The machine will match the air flow with the desired operating pressure to maximize output and keep the engine as fuel efficient as possible. In turn it will increase your utilization rate and ROI as it is adaptable to many more applications than a standard machine.
- . Designed with environment protection in mind for use in sensitive area
- · Best in class fuel consumption, leading to lower operational costs

OPTIONS

- · Refinery equipment
- · Support mounted base frame
- · Portable Full Feature (filtered air)
- Electric brake undercarriage
- · Cold weather package

ISO STANDARDS

Atlas Copco's fully implemented Quality Management and Environmental Management systems in the design and manufacturing of these units fulfill the requirements of ISO 9001 and ISO 14001. The range has also been tested according to ISO 1217.





Danger: Compressed air shooki never be supplied as breathing air unless air is properly perfied for breathing. Alias Copco assumes no responsibility or liability milated to the purchaser's/eser's breathing air system



APPENDIX C EMISSION REDUCTION CREDIT TRANSFER PACKAGE

APPENDIX C



AQC Environmental Brokerage Services 5881 Engineer Drive Huntington Beach, CA 92649 P: (714) 397-5508 www.aqc-inc.com

March 6, 2019

Leonard Scandura
Air Pollution Control Officer
San Joaquin Valley Air Pollution Control District
34946 Flyover Court
Bakersfield, CA 93308

Dear Mr. Scandura:

Cemex Construction Materials Pacific, LLC ("Cemex") is requesting the approval of an inter-district transfer of Emission Reduction Credits ("ERCs") from San Joaquin Valley Air Pollution Control District ("SJVAPCD") to Mojave Desert Air Quality Management District ("MDAQMD"). The following ERCs will be transferred to Cemex from Sierra Power Corporation:

- 23 pounds of SJVAPCD PM10 ERCs, or 0.0115 tons of SJVAPCD PM10 ERCs from Certificate No. S-4847-4
- 4 pounds of SJVAPCD SOx ERCs, or 0.002 tons of SJVAPCD SOx ERCs from Certificate No. S-4585-5
- 878 pounds of SJVAPCD NOx ERCs, or 0.439 tons of MDAQMD NOx ERCs from Certificate No. S-4990-2

We ask for your consideration of this transfer upon analysis of the attached items in this transfer package. Upon your approval of the exit of credits from San Joaquin Valley Air Pollution Control District, we will contact Mojave Desert Air Quality Management District and request their approval of the entrance of such credits. Please notify us once you have approved of this transfer, and any next steps that need to be taken.

If both air districts approve of the transfer, please forward newly issued certificates to:

Cemex Inc Attention: Alejandra Silva 16888 N. "E" Street Victorville, CA 92394 alejandrav.silva@cemex.com

Please forward the altered certificates to the following address:

Sierra Power Corporation Attention: Kent Duysen 9000 Road 234 Terra Bella, CA 83270 Sfp@sierraforest.net

Attached in this transmittal are the following items necessary to process the ERC Transfer:

- Purchase and Sale Agreement executed by both parties
- Letter from the Buyer authorizing the ERC transfer
- Transfer fee check in the amount of \$83.00
- Transfer of Ownership ERC Letter of Release (Transfer form) signed by Seller

Please send written confirmation of the ERC transfer from Sierra Power Corporation to Cemex Inc or email copies of the newly issued, original certificates to my attention at iferlita@aqc-inc.com.

Air Quality Consultants Inc. Attention: Jackie Ferlita 5881 Engineer Drive Huntington Beach, CA 92649

Thank you for your assistance in processing this ERC transfer request. Please call me at 714-397-5508 if you have any questions.

Sincerely,

President, Emissions Broker Air Quality Consultants Inc.



Air Quality Consultants 5881 Engineer Drive Huntington Beach, CA 92649 P: (714) 397-5508

Furchase and Sale of San Joaquin Valley Air Pollution Control District Emission Reduction Credits ("Agreement")

Buyer:	Comex Inc. on b Materials Pacifi	ehalf of Cemex Construction		Address: 10100 Katy Fwy., Suite 300 Houston, TX 77043			
Buyer Contact:	Ernesto Liboreir	Acres -	Contact Telephone Number: 713-722-1711				
				liboreiro@cemex.com			
Seller:	Sierra Power Co	orporation	Address: 9000	105 705 175 175 175 1			
				Bella, CA 83270	02		
Seller Contact:	Kent Duysen		Contact Teleph Email: sfp@sier	one Number: 559-535-48	93		
	T. S	40	citien, sipersier	Tatorescock			
Transaction Date:	February 14, 20	219					
	23 pounds of P No. S-4847-4	M10 ERCs, or 0.0115 tons, sp	oread evenly across qua	arters, derived from SJVA	PCD ERC Certificate		
	878 pounds of NOx ERCs, or 0.439 tons, spread evenly across quarters, derived from SIVAPCD ERC Certificate No. S-4990-2						
	4 pounds of SO 4585-5	x ERCs, or 0.002 tons, spread	evenly across quarters,	derived from SJVAPCD E	RC Certificate No. S		
Product &							
Quantity:	To be distribute	ed as detailed herein:					
	SJVAPCD Fede	eral Certificate No.					
	Product	Quarter 1 (lbs.)	Quarter 2 (lbs.)	Quarter 3 (lbs.)	Quarter 4 (lbs.		
	PM10	6	6	6	5		
	NOx	220	220	219	219		
	SOx	1	1	1	1		
Purchase & Sale:	per ton, 0.439 \$55,248.62 per	to Buyer, and Buyer shall pur tons of SJVAPCD NOx ERCs ton; totaling \$25,000.00.	at \$55,248.62 per tor	n, and 0.0002 tons of SJ	VAPCD SOx ERCs a		
Contingencies of	Upon the followers:	wing Contingencies of Approv	val being satisfied, Buy	er will purchase the Prod	luct and Quantity of		

Approval:

- Approval of ERC exit by the San Joaquin Valley APCD Air Pollution Control Officer
- Approval of ERC entrance by the Mojave Desert AQMD Air Pollution Control Officer

Upon Contingencies of Approval being satisfied, Buyer Agrees to buy, and Seller agrees to sell the Product and Quantity of ERCs.

Transfer and Payment Terms:

Broker will work with Buyer and Seller to submit all necessary transaction paperwork to complete the ERC

Buyer agrees to pay SJVAPCD/MOAQMD ERC transfer fees.

Within two (2) business days of receipt of transaction paperwork, Buyer will sign the Purchase and Sale Agreement (PSA) and send a PDF copy to Seller. Seller will countersign the PSA and send a PDF copy to Broker.

Buyer will send one Letter of Intent to purchase on company letterhead (intended for SJVAPCD), and one Letter of Intent to purchase on company letterhead (intended for MDAQMD) to Broker at the following address:

AQC

Attn: Jackie Ferlita 5881 Engineer Drive Huntington Beach, CA 92649

Seller will sign the ERC transfer form and send to Broker with original signature to the address listed above.

On receipt of Buyer's letters (from Buyer) and transfer form [from Seller], Broker will submit both letters, transfer form, fully executed PSA, transfer fees, and AQC's letter to SJVAPCD outlining the details and nature of the transfer to SJVAPCD.

Buyer agrees to submit Total price, Brokerage, and SCAQMD Transfer fee to Broker within thirty (30) business days from execution of Purchase and Sale Agreement.

Within five (5) business days of written notice from the SJVAPCD/MDAQMD of transfer of ERCs from Seller to Buyer, Broker will submit Purchase Price less Brokerage to Seller.

All funds paid shall be rendered in the form of immediately available United States dollars. Payment shall be made by wire transfer or in such other form as agreed to by the parties.

Buyer and Seller shall cooperate fully to obtain any and all required approvals and/or documents which may be required to retire ERCs in Buyer's name.

IN WITNESS WHEREOF, the Buyer and Seller hereto made and executed this Agreement for the Purchase and Sale of ERCs, signed by their duty authorized officers or individuals, as of the day and year first above written.

Buyer: Cemex Inc. on behalf of Cemex Construction Materials Pacific, LLC	Seller: Sierra Power Corporation
Signature: Title: Chief Economy+	Kardayah President
Printed Name: Date: Ernos lo S. Liberon Fob 25, 2019	Frinted Nome: Date: 2/25/19



February 14, 2019

Mr. Leonard Scandura Air Pollution Control Officer San Joaquin Valley Air Pollution Control District 34946 Flyover Court Bakersfield, CA 93308

Re

Transfer of ERCs from San Joaquin Valley Air Pollution Control District to Mojave Desert Air Quality Management District

Dear Mr. Scandura:

Cemex Construction Materials Pacific, LLC ("Cemex") requests the approval of an inter-district transfer of Emission Reduction Credits ("ERCs") from San Joaquin Valley Air Pollution Control District ("SJVAPCD") to Mojave Desert Air Quality Management District ("MDAQMD") pursuant to California Health and Safety Code Section 40709.6. Section 40709.6 requires an inter-district transfer to be approved by a resolution adopted by the Governing Board or Air Pollution Control Officer in each District, Cemex and Sierra Power Corporation ("SPC") are requesting the transfer of title to certain ERCs, which are defined in and governed by SJVAPCD, to Cemex to be used in the MDAQMD.

Cemex is kindly requesting the approval of this transfer by the SJVAPCD and MDAQMD,

ERCs Requested for Transfer

Cemex has contracted for the purchase of 0.0115 tons of Particulate Matter ("PM10"), 0.439 tons of Nitrous Oxides ("NOx"), 0.002 tons of Sulfur Oxides ("SOx") ERCs from Sierra Power Corporation's SJVAPCD ERC Certificates No. S-4847-4, S-4990-2, and S-4585-5, respectively. Cemex is requesting SJVAPCD approve the export of the aforementioned quantities from the ERC certificate detailed below:

Product	Quarter I (lbs)	Quarter 2 (lbs)	Quarter 3 (lbs)	Quarter 4 (lbs)	Total Tons	
PM10	6	6	6	5	0.0115	
NOx	220	220	219	219	0.439	
SOx	1	1	1	1	0.002	

Cemex has an agreement to purchase the ERCs needed for the project from Sierra Power Corporation, which were a result of the shutdown of the biomass fired cogeneration plant located in Terra Bella, California.

Therefore, Cemex is requesting the approval of an inter-district transfer of ERCs from SJVAPCD to MDAQMD, pursuant to California Health and Safety Code, Section 40709.6.

CEMEX, INC. - United States Operations 10100 Katy Freeway, Suite 300 Houston, Texas 77043 USA Phone (713) 550 6200 cemexusa.com



California Health and Safety Code

Listed below are the applicable sections of the Health and Safety Code and how each requirement has been addressed:

California Health and Safety Code 40709.6 allows for the offset of emissions at a stationary source located in one air district with emissions reductions credited to a stationary source in another air district, outside of the air basin if the following conditions are met; the stationary source to which the emissions reductions are credited is located in an upwind district that is classified as being a worse non-attainment status than the downwind district, and the stationary source at which there are emissions increase to be offset is located in a downwind district that is overwhelmingly impacted by emissions transported from the upwind district. The use of SPC's ERCs at Cemex's Victorville facility satisfies both requirements.

Furthermore, the California Health and Safety Code 40709.6 stipulates that inter-district ERC transfers must be approved by a resolution adopted by the governing boards of both air districts or by the air pollution control officers, if such authority is delegated by the boards. The evaluation of the transaction includes factors such as the impact of the offset on air quality, public health, and regional economy.

MDAQMD is currently waiting for SJVAPCD to approve the transfer of ERCs which will be surrendered to MDAQMD for the issuance of the permit for the aforementioned project. MDAQMD will not grant the requested authorization to construct unless it determines that the project complies with relevant federal and state rules, regulations, and air quality standards.

The transfer of the subject ERCs will result in a net air quality benefit for the San Joaquin Valley as the transfer of the aforementioned ERCs will prevent their use to offset emissions in the future, while the offset ratios required by MDAQMD New Source Review regulations will ensure that a greater amount of ERCs will be used than pollutants emitted. Pursuant to MDAQMD regulations, Cemex will submit the subject ERCs at a ratio of at least 1.3 to 1, fully offsetting the potential emissions increase from its project.

Public Health

The use of SJVAPCD ERCs for the project are expected to have a net benefit to air quality, and public health. The quantity of ERCs used will exceed the project's maximum potential emissions, the ERC transfer may result in a future public health benefit due to the 1.3 to 1 offset ratio in MDAQMD.

Regional Economy

These ERCs would allow continued operation of a successful business entity in the Mojave Desert and an employer of many residents of this region. The sustained jobs, capital investment, and ongoing operations associated with the project will have a positive impact on the regional economy while fully complying with very stringent air quality regulatory requirements.

Based on the foregoing reasons, we request that SJVAPCD and MDAQMD's Air Pollution Control Officers evaluate and approve the transfer of Sierra Power Corporation's ERCs between SJVAPCD and MDAQMD.

Thank you for your time and consideration with this matter. Please contact me at (713) 722-1711 if you have any questions or need additional information.

CEMEX, INC, - United States Operations 10100 Katy Freeway, Suite 300 Houston, Texas 77043 USA. Phone (713) 650 6200 cemexusa.com



Sincerely,

Ernesto Liboreiro Chief Economist CEMEX PROJECT NO.: FACILITY ID.:

TRANSFER OF OWNERSHIP ERC LETTER OF RELEASE

Sierra Power Corporation, as current holder of record of (Selling Company Name) Emission Reduction Credit (ERC) banking certificates (as listed below) issued by the San Joaquin Valley Air Pollution Control District (SJVAPCD), hereby releases all rights of ownership, in whole or in part, as described in the accompanying application, of the below listed ERCs to: Cemex Inc on behalf of Cemex Construction Materials Pacific, LLC (Acquiring Company Name) as of February 14, 2019. (Date of Sale) CERTIFICATE NUMBER(S) S-4990-2 S-4847-4 S-4585-5 (Use Additional Sheets if Necessary) Signed: Kent Sugar Date: 2/15/19 Title: President Name (Print): Kent Duysen Sierra Power Corporation Company Name: Acquiring Company Contact Telephone: Name: 713-650-6200 Ernesto Liboreiro Address: 10100 Katy Fwy Suite 300

Houston, TX 77043

San Joaquin Valley Air Pollution Control District

Application for ERC Transfer of Ownership

	[X] ERC TRANSFER OF C		ERC TRANSFER OF OWNERSHIP & WITHDRAWAL						
1. 1	ERC TO BE ISSUED TO: C	Facility ID: (if known)							
2.	MAILING ADDRESS: Street/	P.O. Box: 10100 Katy	Fwy Suite 300						
		City: Houston Sta	to: TX Zip Code: 77043						
3.	CURRENT OWNER: Sierra I	•				Facility ID: S-834 (if known)			
4.	MAILING ADDRESS: Street/		234 State: CA Zip Code: 83270						
5.	EXISTING ERC NO(S): S-499	90-2; S-4847-4; S-	4585-5						
6.	If withdrawing ERCs, list Per	mit units being of	Set:						
7.	REQUESTED ERCs (In Pou	nds Per Calendar	Quarter except CO2e):						
		VOC	NOx	co	PM10	SOx	OTHER		
	1ST QUARTER		220		6	1			
	2ND QUARTER		220		6	1			
1	3RD QUARTER		219		6	1			
	4TH QUARTER		219		5	1			
	CO ₂ e		metric ton/yr						
8.	FOR ERC T/O APPLICATION	ONS ONLY, LIST	THE COST OF ERCs PI	ROPOSED TO B	E USED AS OFFS	SETS, (In Dolla	rs Per Ton) :		
	VOC:	co:	SOx: _\$55,248.62						
	NOx: \$55,248.62/ton PM10: \$55,248.62 Other: (Use additional sheets if necessary)								
9.	9. SIGNATURE OF APPLICANT (FOR CURRENT OWNER): Type or print title of applicant: President								
10.	10. TYPE OR PRINT NAME OF APPLICANT: Kent Duysen				DATE: 2/15/19		TELEPHONE NO: 559-535-4893		
11.	11. COMPANY EMPLOYING APPLICANT: Sierra Power Corporation				FAX NO:		E-MAIL: sfp@sierraforest.net		
FOR	APCD USE ONLY:								
	DATE STAMP		FILING FEE RECEIVED: S DATE PAID:						

APPENDIX D MDAQMD FORMS

APPENDIX D

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760,245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov - @MDAQMD Application for internal combustion engine (I.C.E.) only

Remit \$288.00 with this document (\$164.00 for change of owner)



 a. Permit to be issued to (company name) 	K.		b. Federa	tax ID #;
CEMEX Construction Maladial Pacific, LLC			72-0296500	
 Mailing/billing address (for above comp 1999 North 'E' Steet, Victorite, CA 92364 	parry name) include city, store o	na zip code:		
d. Facility or business license name (for ec	quipment location): CEMEX Construction Mi	fertel Pacific, LLC		Control of the Contro
e. Facility Address — Location of equipme 95338 Black Mountain Querry Read, Again Velley, CA 527		ter "Same");		Equip. coordinates (lat/long): 34 60417 J 117 100619
1. Sollings (186.16)	Title: Endocroped Meraper	Email address:		Phone: (760) 381-7549
General nature of business:	and the same of th			Company NAICS: 387310
Type of Organization Individual owner Partnershi	p Corporation] Utility 🔲	Local agenc	y State agency
☐ Federal agency	41 .1			
Section 2: Nature of app	and the second s			
Application is hereby made for the follow	ing equipment			
Application is for what type of permit.	For	modification or ch	ange of own	er
New construction Modification				rmit Number
Do you daim Confidentiality of Data?		olanation; specify	which inform	ation provided is confidential)
Section 3: Equipment in	formation			
Engine function: Prime Emerger		Portable 2		s defined in Rule 301[E](10]
Engine manufacturer: John Deere	Engine model: ************************************	E	ngine serial r	rumber: PORNICLITINO
Engine year of manufacture: 2013	Date	installed: 4x4 2819		
Rating (BHP): 380	Speed (RPM): 1800	N	lumber of cyl	inders 6
Mauria (Bully)				
	gas Propane/LPG G. Alternative fuel/back-up fo	asoline Dige uel. if applicable (s		Landfill gas
Fuel type: CARB diesel Natural Other (specify):	프로마이터 이 경기를 잃었다면 하시면 하시면 그 이번에 다 것]Landfill gas
Fuel type:	Alternative fuel/back-up for icated fuel meter None		pecify):	□ Lean burn
Fuel type:	Alternative fuel/back-up fu icated fuel meter None Con ted Turbocharged A introl module Direct fuel	iel if applicable (sombustion type: Iftercooled Intercooled Pre	Rich bum ntercooled combustion	Lean burn Air-to-fuel ratio controller chamber Piston scavengin
Fuel type:	Alternative fuel/back-up fu icated fuel meter None Con ted Turbocharged A introl module Direct fuel	iel if applicable (sombustion type: Iftercooled Intercooled Pre	Rich bum ntercooled combustion	Lean burn Air-to-fuel ratio controller chamber Piston scavengi

Page 1 of 2

-For District use only-

feet Exhaust stack diameter:

Permit number.

"F Maximum exhaust rate (ACFM): _

Company/facility number:

Stack is: horizontal evertical weather cap Vent data: Exhaust temp.

Invoice number:

Stack data Exhaust stack height from ground:

Application number:

Emission Factor Basis (attach any s	s data	mp.
JSEPA family name	CARB fam	
Manufacturer Source test		JSEPA AP-42
Other (please specify):		
missions data:		
ollutant Pre-control max. emis	ssions Units	Post control max. emissions Units
10,		
IMHC		
00		
M ₁₀		
0,		
oxic pollutants — Please include	a list of all toxic air pollutants ar	nd their emission rates if known.
Section 5: Powered	Item	
his ICE is used to power.		sor Pump Paint spray gun Corweyor or drive
Fire pump Other (specif		
ERP registration (if applicable):		
Manufacturer:	Model:	Serial No.: Type/size/rating:
Section 6: Operation	n information	
uel Consumption: "		al/hour SCF/hour MMBtu/hr
ypical load:		
acility annual operation by quart		Expected operating hours of equipment
✓ Uniform OR % Jan-Ma		Hrs/day Days/wk 1 Wk/yr
% Jul-Sep% Oct-D	Jec	Total annual hours _==
Section 7: Receptor	information	
Distance (feet) and direction to th		t residence 2000 business 2007 school
Name of closest school (K-12)		
the proposed equipment opera	tes within 1,000 feet of a school	site and operation results in the emission of hazardous air
sollutants, a public natice will be		
ABI District	staff many contact you for furt	her information. Failure to provide additional information
		ner allow the processing of this permit application.
Section 8: Certificat		
hereby certify that all informatio	n contained herein is true and o	orrect.
		also ha
Carlos Uruchurtu	Plant Manager	Superior of the superior of the superior
Name of responsible official	Official title	Signature/of responsible official Date signed Email: cartapatriel unchurbefueres.com
Phone: (760) 952-4864 or (760) 381-7663		Email: cartaigabriel.uruchurlu@comex.com
		ina@mdaamd ca aay
1) Submit complete		
Submit complete Pay the correspo	nding application fee of \$	
Submit complete Pay the correspo for change of ow		ard.
 Pay the correspond for change of own Payment by check: 	nding application fee of \$ mer) via check or credit ca	Payment by credit card:
Submit complete Pay the correspo for change of ow Payment by check: Make check payable thail the check with a	nding application fee of \$ mer) via check or credit ca to Mojave Desert AQMD copy of this	Payment by credit card: Pay online at http://www.mdaqmd.ca.gov Click "Pay Fees"
Submit complete Pay the correspo for change of ow Payment by check: Make check payable t Mail the check with a completed application	nding application fee of \$ mer) via check or credit ca so Majave Desert AQMD copy of this n to:	Payment by credit card: Pay online at http://www.mdaqmd.ca.gov Click "Pay Fees" Please note: a surcharge applies
Submit complete Pay the correspo for change of ow Payment by check: Make check payable t Mail the check with a completed application Moiave Desert AQM	nding application fee of \$ mer) via check or credit ca so Majave Desert AQMD copy of this n to:	Payment by credit card: Pay online at http://www.mdaqmd.ca.gov Click "Pay Fees"
Submit complete Pay the correspo for change of ow Payment by check: Make check payable t Mail the check with a completed application	nding application fee of \$ mer) via check or credit ca so Majave Desert AQMD copy of this n to:	Payment by credit card: Pay online at http://www.mdaqmd.ca.gov Click "Pay Fees" Please note: a surcharge applies
1) Submit complete 2) Pay the correspo for change of ow Payment by check: Make check payable Mail the check with a completed applicatio Mojave Desert AQM 14306 Park Avenue Victorville, CA 92392 3) If payment is ma	nding application fee of \$ mer) via check or credit ca to Mojave Desert AQMD copy of this n to: D de online via credit card,	Payment by credit card: Pay online at http://www.mdaqmd.ca.gov Click "Pay Fees" Please note: a surcharge applies

Page 2 of 2

at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

4/25/2019 Payment Confirmation



Government Payment Service GovPayNet 7102 Lakeview Parkway West Drive Indianapolis, IN 46268

04/25/2019 18:32 EDT

24 Hour Customer Service #: 888-604-7888

Applications Payment Confirmation (Ref #: 25657343)

PLC: Mojave Desert Air Quality Management District Date: 04/25/2019 18:32 EDT

8094 14306 Park Avenue

Victorville, California 92392

For: Applications

TRANSACTION INFORMATION

Contact's Name: Alejandra Silva Transaction Reference #: 25657343

Doing Business Transaction Date/Time:

As: Cemex

Company Name: Cemex Street Address: 16888 E St

Victorville, Ca 92394

Telephone #: (760)381-7638

Site Address: 25220 Black Mountain Quarry Rd

Apple Valley, Ca 92307

Equipment Description: Cemex -ice Emergency Pump

BILLING INFORMATION PAYMENT INFORMATION

 Name:
 Kandyl Martinez
 Approval #:
 043685

 Address:
 16888 E St
 Payment
 \$288.00

 Amount:
 Amount:
 \$288.00

City, State Zip: Victorville, Ca 92394 Amount:

Phone #: (760)381-7638 Service Fee: \$11.25

Phone #: (760)381-7638 Service ree: \$11.25

Card #: xxxx-xxxx-xxxx-3172 Total Amount: \$299.25

The service fee is not refundable.

ATTENTION CARDHOLDER

If you have questions about the processing of your payment, please call GovPayNet at 888-604-7888.

Thank you for using GovPayNet

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Form #: EUR

1/1

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov + @MDAQMD

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)



PLEASE TYPE OR PRINT

 Permit to be issued to (compar CEMEX Construction Material Paci 		1.000	ederal tax ID #: 96500
c. Mailing/billing address (for abo	ove company name) include city, st		
16888 North "E" Street, Victorville, d. Facility or business license nam	ne (for equipment location):		
		tion Material Pacific, LLC	Equip. coordinates (lat/long)
 Facility Address — Location of 25220 Black Mountain Quarry Rose 	equipment (if same as for compar 1, Apple Valley, CA 9230?	4	34.62417 (-117.100819
f. Contact name: Alejandra V. Silve	Title: Environmental Manager	Email address; alajandrav.silva@comex.o	Phone: com (760) 381-7649
General nature of business: Coment Manufacturing	- V		Company NAICS: 327310
Type of Organization Individual owner Page Federal agency	artnership Corporation	Utility Local a	gency State agency
Section 2: Nature of Application is hereby made for the	ne following equipment:		
Emergency Fire Pump - 2013 John Decre	intrice	Proposal Parklan as shapes of	
Application is for what type of pe	armit.	For modification or change of	SHALLER.
	SERVE - Commence - Com		10 10 10 10 10 10 10 10 10 10 10 10 10 1
■ New construction ■ Modifi Do you claim Confidentiality of D			nt Permit Number formation provided is confidential
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br	ent information	ch explanation; specify which in	
Do you claim Confidentiality of D	ent information	ch explanation; specify which in	
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Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Confidential Contractor Brights - Browners Pin P. Prince Dalput 380 IPP 281 INC.	ent information	ch explanation; specify which in	
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Conditionation Continuos Bright - Breagues) Pin II. Primer Delput 380 IP DRI MR. English Mariel Harman - EDOS POIN.	ent information	ch explanation; specify which in	
Do you claim Confidentiality of D Section 3: Equipme Sequipment description (give a browner blook description (give a browner blook description) From Days 30019-30140 Engine United Horsen 800019-0118 Engine Send Konder 1900000, 11398 BRAY-arey Sender 0.00000, 11398	ent information	ch explanation; specify which in and/or process):	
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a to Description of Contracts from the Theory of the Contract Market State State Engine Marie Human Education Engine Engine Manufacture: John Descre Manufacture: John Descre	ent information ief description of the equipment a	ch explanation; specify which in and/or process): Serial numb	formation provided is confidential
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Constitution Context on Engine - Emergency Pile In. Plant Dulyd 380147 SRI Mile. Engine Seniel Harmon - EDOSPOSTIR. EMPLY Seniel Harmon - EDOSPOSTIR. Manufacturer, John Descrip	No Ves (atta ent information ief description of the equipment a ent information Madel: 6090HPO47A ipment? Yes No (Note: most	ch explanation; specify which in and/or process): Serial numb	formation provided is confidential
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Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Constitution Equipment Description (give a br Constitution Equipment Description Engine Marie Review (Exceller, 1976) Manufacturer: John Description Add-on air pollution control equ If yes: Manufacturer: Type (specify): Stack data Exhaust stack heightiges (Section 1976) Exceller (Section 1976) Exceller (Section 1976) Exceller (Section 1976) Exceller (Section 1976) Extending (Section	Madel: 5090HFC47A ipment? Yes No (Note: mass Model: Se	ch explanation; specify which in and/or process): Serial numb APCE require a separate applic rial *: CA eet Exhaust stack diameter.	formation provided is confidential or: R00000L117349
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Description of Descriptio	Madel: 5090HFC47A ipment? Yes No (Note: most Model: Se	ch explanation; specify which in and/or process! Serial numb t APCE require a separate applic rial *: CA	formation provided is confidential or: R00980L117949 strion) RB EO#:
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Constitution Equipment Description (give a br Constitution Equipment Description of Equipment Description	Madel: 5090HFC47A ipment? Yes No (Note: mass Model: Se ht from ground: fet "F Maximum exhaust ret	sch explanation; specify which in and/or process): Serial numb **APCE require **aseparate application**: CA **eet Exhaust stack diameter. te (CEM):	formation provided is confidential or: R00980L117949 strion) RB EO#:
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a br Description Confector Topics - Breagancy Title In. Transport Sector (Sector Indicated Topics - Breagancy Title In. Description Sector (Sector Indicated Interes England Sector (Sector I	Madel: 5090HFC47A ipment? Yes No (Note: mass Model: Se ht from ground: fet "F Maximum exhaust ret	ch explanation; specify which in and/or process! Serial numb t APCE require a separate applic rial *: CA	formation provided is confidential or: R00980L117949 strion) RB EO#:

Page 1 of 2

Section 4: Emissions of	lata			
Emission Factor Basis (attach any sour	rce specified): Perso, we attached doors	H.		
Manufacturer Source test Other (please specify):	MDAQMD default US	EPA AP-42		
Emissions data:				14.75
Pollutant Pre-control max, emission	ns Units	Post control max.	emissions	Units
NO,				
NMHC				
CO				
PM ₁₀				
SO ₄	_			
Toxic pollutants — Please include a li-	st of all toxic air pollutants and	d their emission rates if kn	own.	
Section 5: Operation				
Fuel Consumption: 17		/hour SCF/hour [MMBtu/hr	
Typical load:				
Facility annual operation by quarters		Expected operating hor	urs of equipment	
✓ Uniform OR % Jan-Mar _	% Apr-Jun		Days/wk _1	Wk/yr
% Jul-Sep% Oct-Dec		Total annua	l hours_so	
Section 6: Receptor in	nformation			
Distance (feet) and direction to the p	roperty line of closest: 18,500	ft residence 20,660	t business 29/	637 fl school
Name of closest school (K-12) Sycan	ore Rocks Elementary School			
If the proposed equipment operates	within 1,000 feet of a school			ardous air
pollutants, a public notice will be rea	quired at the expense of the a	ppacant (CH&S 942301.6)		
*Please note: District staf as requested in a tir	f may contact you for furth nely manner may result in	er information. Failure t delays in the processing	to provide additional of this permit applic	information ation.
Section 7: Certification	n			
I hereby certify that all information of	ontained herein is true and co	rrect.		
		al	and .	. 1 . 1.
Carlos Uruchurtu	Plant Manager	12	3	4/25/19
Name of responsible official	Official title	Signature of responsible	e official	Date signed
Phone: (760) 952-4864 or (760) 381-76	393	Email: carl	loegabriel.uruchurtu@ce	mex.com
	tructions: application to Engineeri			!» (au \$154

Pay the corresponding application fee of \$288 per permit for new or modified permit (or \$164 for change of owner) via check or credit card.

Payment by check:

Make check payable to the Mojave Desert AQMD Mail the check with a copy of this completed application to:

Mojave Desert AQMD

14306 Park Avenue Victorville, CA 92392

Payment by credit card:

Pay online at http://www.mdaqmd.ca.go/

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

Page 2 of 2

4/29/2019 Payment Confirmation



Government Payment Service GovPayNet

7102 Lakeview Parkway West Drive Indianapolis, IN 46268

24 Hour Customer Service #: 888-604-7888

Applications Payment Confirmation (Ref #: 25679208)

PLC: Mojave Desert Air Quality Management District Date: 04/29/2019 14:07 EDT

8094 14306 Park Avenue

Victorville, California 92392

For: Applications

TRANSACTION INFORMATION

Transaction Reference #: 25679208 Contact's Name: Alejandra Silva 04/29/2019 14:07 EDT

Transaction Date/Time: **Doing Business** Cemex

As:

Company Name: Cemex Street Address: 16888 E St

Victorville, Ca 92394

Telephone #: (760)381-7649

Site Address: 25220 Black Mountain Quarry Rd

Apple Valley, Ca 92307

Equipment Cemex - General App / Emergency Fire

Description:

Card #:

BILLING INFORMATION

Name: Kandyl Martinez Approval #: 032711

PAYMENT INFORMATION

Address: 16888 E St Payment

\$288.00 Amount: City, State Zip: Victorville, Ca 92394

Service Fee: \$11.25 Phone #: (760)381-7689 Total Amount: \$299.25

The service fee is not refundable.

xxxx-xxxx-xxxx-3172

ATTENTION CARDHOLDER

If you have questions about the processing of your payment, please call GovPayNet at 888-604-7888.

Thank you for using GovPayNet

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Form #: EUR

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov + @MDAQMD

Application for internal combustion engine (I.C.E.) only

Remit \$288.00 with this document (\$164.00 for change of owner)





COMBING publing address for above company name) include city; state and zip code: 1	 a. Permit to be issued to (company name) 			b. Fede	ral tax ID #:
Reference Profession Contract Contra				1	Č
e. Facility Address — Location of equipment (if same as for company, enter "Same"): ### Stace Black Measures Currey Real Agree Varies, CA 83007 ### Contact name: ### Agree Varies, CA 83007 ### Company Name Curry Real Agree Varies, CA 83007 ### Company Name Curry Real Agree Varies, CA 83007 ### Company Name Curry Real Agree Varies, CA 83007 ### Company Name Curry Real Agree Varies, CA 83007 ### Company Name Curry Real Agree Varies, CA 83007 ### Company Name Com		pany name) include city, s	tate and zip co	le:	
e. Facility Address — Location of equipment (if same as for company, enter "Same"): Security Address — Location of equipment (if same as for company, enter "Same"): Security Address — Location of equipment (if same as for company, enter "Same"): Adjacta V. Sine	d. Facility or business license name (for ec	uipment location):			
### Section Assume County Front. Agen Varie, CA 92307 Contact name.					
Section 2: Nature of application Company NAICS: Com		Company of the contract of the	ny, enter "Same	r");	
General nature of business: Company NAICS: State		0000	10.00000000	CONT. 0000	
Type of Organization Partnership Corporation Utility Local agency State agency Federal agency State agency State agency Federal agency State agency Section 2: Nature of application Application is hereby made for the following equipment: Portable Corporation For modification or change of owner; Application is for what type of permit For modification or change of owner; New construction Modification Change of owner Now Current Permit Number Do you claim Confidentiality of Data? Pino Yes (attach explanation; specify which information provided is confidential) Section 3: Equipment information Low-use (<80 hr/yr) Portable Stand-by (as defined in Rule 301(E[10]) Check all thor apply: Check all thor apply: Check all thor apply: Check all thor apply: Check all thorapped Check all thorapp	1796-1707-1707-1	Einkonmertal Manager	slajandi	av ellegicenes com	STORY COLUMN TO THE PARTY OF TH
Type of Organization					
Individual owner	103171010101010110W				321310
Application is hereby made for the following equipment: Potable Corrpessor - John Deero, Name-COMP1 Application is for what type of permit Application is for what type of permit Application is for what type of permit New construction Modification Change of owner Now Current Permit Number Do you claim Confidentiality of Data? No Yes (attach explanation; specify which information provided is confidentially Section 3: Equipment information Engine function: Prime Emergency Low-use (<80 hr/yr) Portable Stand-by (as defined in Rule 301[E[[10]]) Check all that apply: Engine manufacturer: Now Engine model: Engine model: Section Stand-by (as defined in Rule 301[E[[10]]) Engine wanufacturer: Now Engine model: Engine serial number: HOP081888 Engine water of manufacturer: Now Number of cylinders: Number of cylinders:	☐ Individual owner ☐ Partnershi	Corporation	☐ Utility	☐ Local ager	ncy State agency
Application is hereby made for the following equipment: Potable Corrpessor - John Deero, Name-COMP1 Application is for what type of permit Application is for what type of permit Application is for what type of permit New construction Modification Change of owner Now Current Permit Number Do you claim Confidentiality of Data? No Yes (attach explanation; specify which information provided is confidentially Section 3: Equipment information Engine function: Prime Emergency Low-use (<80 hr/yr) Portable Stand-by (as defined in Rule 301[E[[10]]) Check all that apply: Engine manufacturer: Now Engine model: Engine model: Section Stand-by (as defined in Rule 301[E[[10]]) Engine wanufacturer: Now Engine model: Engine serial number: HOP081888 Engine water of manufacturer: Now Number of cylinders: Number of cylinders:		lication			
Portable Compressor - John Deero, Name-COMP1 Application is for what type of permit New construction Modification Change of owner Now Current Permit Number					
Application is for what type of permit New construction Modification Change of owner NA		2 - Jackmann			
New construction Modification Change of owner NAM			For modificat	ion or change of ow	ner:
Engine function:	특하다 (1997년 1일 : 1987년 1987년 1987년 1987년 1	Change of owner	NA	Current F	Permit Number
Section 3: Equipment information Engine function:	Do you claim Confidentiality of Data?	7 No 🗖 Ves (atta	urh explanation	snecify which infor	mation provided is confidentially
Engine function:			G. C. Principal	aposity according	
Engine manufacturer; Anno Ceases	Section 3: Equipment in	formation			
Engine year of manufacture: ************************************		ncy Low-use (<80 h	r/yr) 🗸 Porta		as defined in Rule 301(E)(10)
Rating (BHP); 399 Speed (RPM); 1700 Number of cylinders; 64 Fuel type:	Engine manufacturer: **** Term	Engine model: 5048		Engine serial	number: HOP081888
Rating (BHP); asse	Engine year of manufacture: 2016		Date installed	April 2019	
Fuel type:	Rading (BHP): 280	Speed (RPM): 1700	Augustanory	Number of c	vlinders: 6.6
Other (specify):		The state of the s	☐ Gasoline		Section 2000
Engine meter:			- 		
Cycle type:	A STATE OF THE PARTY OF THE PAR			incaulte (aprecity):	
Check all that apply: Naturally aspirated Turbocharged Aftercooled Intercooled Air-to-fuel ratio controller		cated tactificates	digital description of the second	nune: [7] Dich hum	These burn
Smoke puff limiter Electronic control module Direct fuel injection Pre-combustion chamber Piston scavengine Other(s) (specify): Add-on emission control technology: Yes No (if applicable, attach manufacturer's specifications and CARB certification or source test result Fyes: Manufacturer: Model: Serial No.: CARB EO#: Type: SCR Non-SCR Particulate trap EGR Oxidation catalyst Other (specify): Stack data Exhaust stack height from ground: feet Exhaust stack diameter. feet Stack is: horizontal vertical weather cap Vent data: Exhaust semp. "F Maximum exhaust rate (ACFM): -For District use only-	Cords have: They code I four ords			4.4	La cost outra
Other(s) (specify): Add-on emission control technology: □ Yes □ No (if applicable, attach manufacturer's specifications and CARB certification or source test result flyes: Manufacturer: Model: Serial No.: CARB EO#: Type: □ SCR □ Non-SCR □ Particulate trap □ EGR □ Oxidation catalyst □ Other (specify): Stack data Exhaust stack height from ground: feet Exhaust stack diameter. feet Stack is: □ horizontal □ vertical □ weather cap Vent data: Exhaust temp, □ "F Maximum exhaust rate (ACFM): -For District use only-			A Adhesia ala		This to final action controller
If yes: Manufacturer: Model: Serial No.: CARB EO*: Type: SCR Non-SCR Particulate trap EGR Oxidation catalyst Oxher (specify): Stack data Exhaust stack height from ground: feet Exhaust stack diameter. feet Stack is: horizontal vertical weather cap Vent data: Exhaust temp. *F Maximum exhaust rate (ACFM): -For District use only-	Check all that apply: Naturally aspirat				
If yes: Manufacturer: Model: Serial No.: CARB EO*: Type: SCR Non-SCR Particulate trap EGR Oxidation catalyst Other (specify):	Check all that apply: Naturally aspirat				
Type: SCR Non-SCR Particulate trap EGR Oxidation catalyst Other (specify): Stack data Exhaust stack height from ground: feet Exhaust stack diameter. feet Stack is: horizontal vertical weather cap Vent data: Exhaust temp. *F Maximum exhaust rate (ACFM): -For District use only-	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Other(s) (specify):	ntrol module Direct	t fuel injection	Pre-combustio	n chamber Piston scavenging
Stack data	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Other(s) (specify): Add-on emission control technology:	ntrol module Direct	t fuel injection attach manufactu	Pre-combustio	n chamber Piston scavenging I CARB certification or source test result
Stack is: horizontal vertical weather cap Vent data: Exhaust temp. *F Maximum exhaust rate (ACFM): -For District use only-	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Other(s) (specify): Add-on emission control technology: If yes: Manufacturer	ntrol module Direct Yes No (if applicable, Model:	t fuel injection attach manufactu Serial No.:	Pre-combustio	n chamber Piston scavenging I CARB certification or source test result ARB EOW:
-For District use only-	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Other(s) (specify): Add-on emission control technology: If yes: Manufacturer: Type: SCR Non-SCR Partico	ntrol module Direct Yes No (if applicable, Model:	attach manufact. Serial No.: Oxidation cataly	Pre-combustio	n chamber Piston scavenging I CARB certification or source test result IARB EON:
	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Other(s) (specify): Add-on emission control technology: If yes: Manufacturer: Type: SCR Non-SCR Partico Stack data Exhaust stack heights from s	Yes No (if applicable, Model: ulate trap EGR round: f	attach manufact. Serial No: Oxidation cataly	Pre-combustions and compared specifications and compared specifications and compared specificack diameter.	n chamber Piston scavenging I CARB certification or source test result ARB EO#: fly): feet
Application number: Invoice number: Permit number: Company/facility number:	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Other(s) (specify): Add-on emission control technology: If yes: Manufacturer: Type: SCR Non-SCR Partico Stack data Exhaust stack height from s	Yes No (if applicable, Model: ulate trap EGR round: f	attach manufact. Serial No: Oxidation cataly	Pre-combustions and compared specifications and compared specifications and compared specificack diameter.	n chamber Piston scavenging I CARB certification or source test result ARB EO#: fly): feet
	Check all that apply: Naturally aspirat Smoke puff limiter Electronic co Othen(s) (specify): Add-on emission control technology: If yes: Manufacturer: Type: SCR Non-SCR Partico Stack data Exhaust stack heights from g	ritrol module Direct Ves No (if applicable, Model: Jate trap EGR round: round: veather cap Vent data:	attach manufact. Serial No.: Oxidation cataly eet Exhaust st Exhaust temp.	Pre-combustio	n chamber Piston scavenging I CARB certification or source test result ARB EO#: fly): feet

Page 1 of 2

Section 4: Emissions	data			
Emission Factor Basis (attach any s	ource specified): Muse, see attacts	ed document.		
USEPA family name	CARB fam	nily name		
☐Manufacturer ☐Source test	MDAQMD default	USEPA AP-42		
Other (please specify):				
Emissions data:				
Pollutant Pre-control max. emis	sions Units	Post cor	trol max. emissions	Units
NO.				
NMHC				
co				
PM ₁₀				
50 _t				
Toxic pollutants — Please include	a list of all toxic air pollutants a	nd their emission	rates if known.	
Section 5: Powered				
This ICE is used to power: Elec		sor Pump	Paint spray gun	Conveyor or drive
Fire pump Other (specifi	0:		-	
PERP registration (if applicable):				
Manufacturer:	Model:	Serial No.:	Ty	oe/size/rating:
Section 6: Operation	n information	,		
Fuel Consumption: LO • 1	at max rated load 🛮 📆 g	al/hour SCF	/hour MMBtu/hr	
Typical load:				
Facility annual operation by quart			rating hours of equipme	
✓ Uniform OR % Jan-Ma			rs/day Days/v	vk 1 Wk/yr
% Jul-Sep% Oct-D	ec	To	otal annual hours_so	
Name of closest school (K-12) Sy If the proposed equipment operat pollutants, a public notice will be	tes within 1,000 feet of a schoo	applicant (CH&S	542301.6)	
as requested in a	timely manner may result in	n delays in the p	rocessing of this permi	t application.
Section 8: Certificat				
I hereby certify that all information	n contained nerein is true and o	correct.	1.0	
Carlos Uruchurtu	Plant Manager		100	4/25/19
Name of responsible official	Official title	Signature of	esponsible efficial	Date signed
Phone: (760) 952-4864 or (760) 381	1-7693	Email:	carlosgabriel.uruch	urtu@cemex.com
A Northern submission is				
Application submission in 1) Submit complete	d application to Engineer	ring@mdaqmo	d.ca.gov	
2) Pay the correspon	nding application fee of	\$288 ner nerm	it for new or modific	ed permit (or \$164
	ner) via check or credit ca		it for their or thousan	ed permit (or 4 to 1
Payment by check:	o Mojave Desert AQMD	Pa	yment by credit card y online at http://www	: v.mdaqmd.ca.gov
Mail the check with a completed application Mojave Desert AQM 14306 Park Avenue Victorville, CA 92392	copy of this 1 to:	Cli	ck "Pay Fees" lase note: a surcharge all credit card payme	applies
3) If payment is made	de online via credit card,	please email t	he receipt to Engine	ering@mdaqmd.ca.gov
	y additional questions, p			
	r via email at engineerin			- permissing arrestor

Page 2 of 2

4/25/2019 Payment Confirmation



Government Payment Service GovPayNet 7102 Lakeview Parkway West Drive Indianapolis, IN 46268

04/25/2019 18:36 EDT

24 Hour Customer Service #: 888-604-7888

Applications Payment Confirmation (Ref #: 25657361)

Mojave Desert Air Quality Management District Date: 04/25/2019 18:36 EDT PLC:

8094 14306 Park Avenue

Victorville, California 92392

For: Applications

TRANSACTION INFORMATION

Transaction Reference #: 25657361 Contact's Name: Alejandra Silva

Transaction Date/Time: **Doing Business** Cemex

As:

Company Name: Cemex 16888 E St Street Address:

Victorville, Ca 92394

(760)381-7638 Telephone #:

Site Address: 25220 Black Mountain Quarry Rd

Apple Valley, Ca 92307

Cemex -ice Emergency Purps Equipment

Description:

BILLING INFORMATION

Name: Kandyl Martinez Approval #: 095375

PAYMENT INFORMATION

Address: 16888 E St Payment \$288.00 Amount:

City, State Zip: Victorville, Ca 92394 Service Fee: \$11.25 Phone #: (760)381-7638

Total Amount: \$299.25 Card #: xxxx-xxxx-xxxx-3172

The service fee is not refundable.

ATTENTION CARDHOLDER

If you have questions about the processing of your payment, please call GovPayNet at 888-604-7888,

Thank you for using GovPayNet

© 2007 Government Payment Service, Inc.

Form #: EUR

1/1

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov + @MDAQMD

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT



	ame):		Federal tax ID #:
CEMEX Construction Material Pacific, U.C.	45.64.5	1.21	296500
c. Mailing/billing address (for above of 18888 North "E" Street, Victorville, CA 02284	company name) include city, sto	ate and zip code:	
d. Facility or business license name (fo		fion Material Pacific, LLC	
 Facility Address — Location of equi 25228 Black Mountein Query Road, Apple Valley, 		y, enter "Same"):	Equip. coordinates (lat/long) 34.69417 (-117.100619
f. Contact name: Aliquides V. Silva	Title: Environmental Manager	Email address: alejandrav aliva@correx.com	Phone: (700) 381-7848
General nature of business: Corrort Mondocuring			Company NAICS: 327310
Type of Organization Individual owner Partne Federal agency	ership	Utility Local	agency
Section 2: Nature of a	* * * * * * * * * * * * * * * * * * * *		
Portable Compressor - John Deere, Name - Co	mp1		
Application is for what type of permit	;	For modification or change of	of owner:
✓ New construction Modification	on Change of owner	NA Curr	ent Permit Number
Do you claim Confidentiality of Data?	No Ves (attac	h explanation; specify which i	nformation provided is confidential)
Section 3: Equipment Equipment description (give a brief d	information escription of the equipment ar		nformation provided is confidential)
Section 3: Equipment Equipment description (give a brief d	information escription of the equipment ar		nformation provided is confidential)
Section 3: Equipment Equipment description (give a brief of Description formation Companions John Process Output 200 FF (868 MR)	information escription of the equipment ar		nformation provided is confidential)
Section 3: Equipment Equipment description (give a brief d	information escription of the equipment ar		nformation provided is confidential)
Section 3: Equipment Equipment description (give a brief of Description (grow brief Des	information escription of the equipment ar	nd/or process):	nformation provided is confidential)
Section 3: Equipment Equipment description (give a brief of Decodrate Hernal Combuston Engines -Pursuite Compression 200 Prover Output 200 HP (ME MI) Engine Sector Number: TED Microurfacturer: John Decou	information escription of the equipment an	nd/or process): Serial num	ber; Hapastass
Section 3: Equipment Equipment description (give a brief of Deserve Output 200 HP (180 HP) Trippe Model PROMET COSE Engine Servet Nutraber COSE Engine Servet Nutraber TBD Manufacturer: John Deserv Add-on air poil fution control equipme If yes: Manufacturer:	information escription of the equipment ar these Model: **** Model: **** **** **** **** **** **** **** **	nd/or process): Serial num APCE require a separate appli	ber; Hapastass
Section 3: Equipment Equipment description (give a brief of Description (g	information escription of the equipment are been Model: www. Model: Ves No (Note: most a	Serial num APCE require a separate applia	ber: H0P061888 cation) IRB EOW:
Section 3: Equipment Equipment description (give a brief of Description (g	information escription of the equipment are some Model: some some Model: Serie	Serial num APCE require a separate applia	ber: H0P061888 cation) IRB EOW:
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Section 3: Equipment Equipment description (give a brief of Description (g	information escription of the equipment are some Model: some some Model: Serie	Serial num APCE require a separate applia of: CA et Exhaust stack diameter:	ber; HGP061888 cation) IRB ECM;
Section 3: Equipment Equipment description (give a brief of Denoifment tensor Computation Contract Computation Computation Computation Computation Computation Computation Computation Contract Engine Startal Number: TBD Manufacturer: John Denois Add-on air pollution control equipment If yes: Manufacturer: Type (specify): Stack data Exhaust stack height for	information escription of the equipment are been Model: some ent? Yes VNo (Note: most and ground: 50 fee open weather cap "F Maximum exhaust rate	Serial num APCE require a separate applia of: CA et Exhaust stack diameter:	ber; HGP061888 cation) IRB ECM;

Page 1 of 2

Section 4: Emissions		
Emission Factor Basis (attach any s		d document.
Manufacturer Source test Other (please specify):	MDAQMD default	SEPA AP-42
Emissions data:		
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions Units
NO,		
NMHC		
co		
PM ₁₀		
5O ₄		
Toxic pollutants — Please include	a list of all toxic air pollutants ar	nd their emission rates if known.
Section 5: Operation	n information	/
Fuel Consumption: 10.7	at max rated load 🔯 g	l/hour SCF/hour MMBtu/hr
Typical load:		
Facility annual operation by quarte		Expected operating hours of equipment Hrs/day Days/wk Wk/yr
Uniform OR % Jan-Ma % Jul-Sep % Oct-D		Total annual hours
Section 6: Receptor		Na dina may
Distance (feet) and direction to th		0 ft residence 20,000 ft business 28,037 ft school
Name of closest school (K-12) Sy	e brobert) mie or erosese	residence business school
If the proposed equipment operate pollutants, a public notice will be	tes within 1,000 feet of a school	site and operation results in the emission of hazardous air
pateurants, a public notice witt be		
*Please note: District s	taff may contact you for furt	her information. Failure to provide additional information delays in the processing of this permit application.
*Please note: District s as requested in a Section 7: Certificat	taff may contact you for furti timely manner may result in	her information. Failure to provide additional information delays in the processing of this permit application.
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Page 2 of 2

Preliminary Determination/Decision - Statement of Basis CEMEX Construction Materials Pacific LLC Last Revision: July 16, 2019 4/29/2019 Payment Confirmation



Government Payment Service GovPayNet 7102 Lakeview Parkway West Drive Indianapolis, IN 46268

04/29/2019 14:13 EDT

24 Hour Customer Service #: 888-604-7888

Applications Payment Confirmation (Ref #: 25679315)

Mojave Desert Air Quality Management District PLC: Date: 04/29/2019 14:13 EDT 8094 14306 Park Avenue

Victorville, California 92392

For: Applications

TRANSACTION INFORMATION

Transaction Reference #: 25679315 Contact's Name: Alejandra Silva

Transaction Date/Time: **Doing Business** Cemex

As:

Company Name: 16888 E St Street Address:

Victorville, Ca 92394

Cemex

Telephone #: (760)381-7649

25220 Black Mountain Quarry Rd Site Address:

Apple Valley, Ca 92307

Equipment Cemex - General App / Compressor 2 Description:

PAYMENT INFORMATION BILLING INFORMATION

020433 Name: Kandyl Martinez Approval #: 16888 E St Payment Address: \$288.00 Amount: Victorville, Ca 92394 City, State Zip:

Service Fee: \$11.25 Phone #: (760)381-7689 \$299.25 Total Amount: Card #: xxxx-xxxx-xxxx-3172

The service fee is not refundable.

ATTENTION CARDHOLDER

If you have questions about the processing of your payment, please call GovPayNet at 888-604-7888.

Thank you for using GovPayNet

© 2007 Government Payment Service, Inc.

Form #: EUR

1/1

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov • @MDAQMD

Application for internal combustion engine (I.C.E.) only

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT



a. Permit to be issued to (company no	ame):		b. Federa	al tax ID ♥:
CEMEX Construction Motorial Pacific, LLC	000000000000000000000000000000000000000		72 0296600	
Mailing/billing address (for above of 1688 North "E" Savet, Victorial, CA 92304	company name) include city.	state and zip code:		
d. Facility or business license name (fi				
		druction Material Poolin, LLC		F. C.
 Facility Address — Location of equi 25231 Black Mounten Query Road, Apple Volley. 	CA 92307	Al View		Equip. coordinates (lat/long): 34.824177-117.190819
f. Contact name: Algorito V. Sivo	Title: Environmental Manager	Email add	A 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Phone: (780) 361-7849
General nature of business: Ceneral Manufacturing				Company NAICS: 307319
Type of Organization Individual owner Partne Federal agency	ership 🖸 Corporation	Utility	Local agend	cy State agency
Section 2: Nature of a	pplication			
Application is hereby made for the fo	llowing equipment			
Portable Compressor - John Deem, Name-CO Application is for what type of permit		For modification of	or change of own	er.
☑ New construction ☐ Modification	Barrer <u>2000</u> agus ar agus an aire agus agus an a	HA		ermit Number
Do you claim Confidentiality of Data	No Ves (at	tach explanation; spe	cify which inform	nation provided is confidential)
Section 3: Equipment	information			
Engine function: Prime Emechan			Stand-by (a	is defined in Rule 301[E][10]
Engline manufacturer: Ann been	Engine model: ***	9	Engine serial r	number: TBO
Engine year of manufacture: 2019		Date installed: Art	28.19	
Rating (BHP): 956	Speed (RPM): 1780		Number of cy	Inders: **
Fuel type: ☑ CAR8 diesel ☐ Nati		Gasoline Ct		Landfill gas
	Control Contro		100000000000000000000000000000000000000	
Engine meter. Z Hour meter	Dedicated fuel meter 1	None		
Engine meter: ☑ Hour meter ☐ Cycle type: ☐ two cycle ☑ four o		None Combustion type:	☑ Rich burn	Lean burn
Engine meter:	ycle pirated Turbocharged	Combustion type:	Intercooled	Air-to-fuel ratio controller
Cycle type: □two cycle ☑ four of Check all that apply: □ Naturally as □ Smoke puff limiter □ Electronic	ycle pirated Turbocharged c control module Dire	Combustion type: Aftercooled ct fuel injection	Intercooled Pre-combustion	☐Air-to-fuel ratio controller chamber ☐ Piston scavengin
Cycle type:two cyclefour of Check all that apply: Naturally as Smoke puff limiter Electroni Other(s) (specify):	ycle pirated Turbocharged c control module Dire	Combustion type: Aftercooled ct fuel injection	Intercooled Pre-combustion specifications and	☐Air-to-fuel ratio controller chamber ☐ Piston scavengin
Cycle type:	ycle pirated Turbocharged c control module Dire Yes No lif applicable Model:	Combustion type: Aftercooled cct fuel injection e, attach manufacturer's	Intercooled Pre-combustion specifications and	☐Air-to-fuel ratio controller chamber ☐ Piston scavengin CARB certification or source test resul URB EO#:
Cycle type:	ycle pirated Turbocharged c control module Dire Yes No lif applicable Model: articulate trap EGR	Combustion type Aftercooled ct fuel injection e, attach manufacturer's Serial No.:	Intercooled Pre-combustion specifications and CA	☐Air-to-fuel ratio controller chamber ☐ Piston scavengin CARB certification or source test resul URB EO#:
Cycle type:	ycle pirated Turbocharged c control module Dire Yes No lif applicable Model: articulate trap EGR pm ground	Combustion type: [7] Aftercooled ct fuel injection	Intercooled Pre-combustion specifications and CA Other (specificameter.	☐Air-to-fuel ratio controller chamber ☐ Piston scavenging CARB certification or source test result URB EO#:
Cycle type:	ycle pirated Turbocharged c control module Dire Yes No if applicable Model: articulate trap EGR om ground; weather cap Vent dat	Combustion type: [7] Aftercooled ct fuel injection	Intercooled Pre-combustion specifications and CA Other (specificameter.	☐Air-to-fuel ratio controller chamber ☐ Piston scavengin CARB certification or source test results EO#: //: //: //: //: //: //: //: //: //:

Page 1 of 2

Section 4: Emissions	data		
Emission Factor Basis (attach any s	ource specified): Please, we attach	of document.	
USEPA family name		nily name	
☐Manufacturer ☐Source test	MDAQMD default	USEPA AP-42	
Other (please specify):			
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NO _x			
NMHC			
co			
PM _H			
SO,			
Toxic pollutants — Please include	a list of all toxic air pollutants a	nd their emission rates if known.	
Section 5: Powered	Item		
This ICE is used to power: Elec		sor Pump Paint spray gun	Conveyor or drive
Fire pump Other (specif			
PERP registration (if applicable):	1/-	-	
Manufacturer:	Model:	Serial No.: T	/pe/size/rating:
		Sendi No.	the section of
Section 6: Operation	n information	/	
Fuel Consumption: 10-7	at max rated load Vg	jal/hour SCF/hour MMBtu/hr	
Typical load:			
Facility annual operation by quart		Expected operating hours of equipment	
✓ Uniform OR % Jan-Ma		Hrs/day Days	/wk _1 Wk/yr
% Jul-Sep% Oct-D	ec	Total annual hours_∞	
Distance (feet) and direction to the Name of closest school (K-12) Sy If the proposed equipment operate pollutants, a public notice will be	camore Rocks Elementary School tes within 1,000 feet of a schoo	d site and operation results in the emission	ness <u>28.607 h</u> school on of hazardous air
*Please note: District s	taff may contact you for furt timely manner may result i	ther information. Failure to provide ac n delays in the processing of this pern	ditional information iit application.
I hereby certify that all informatio	n contained herein is true and o	correct.	
		1000	1/20/19
Carlos Uruchurtu	Plant Manager	- A/ w	7/25/11
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: (760) 952-4864 or (760) 381	1-7693	Email: carlosgabriel.uruc	hurtu@cemex.com
Application submission is			
 Submit complete 	d application to Enginee	ring@mdaqmd.ca.gov	
2) Pay the correspon	nding application fee of 9	\$288 per permit for new or modif	ied permit (or \$164
	ner) via check or credit ca		
Payment by check:	,	Payment by credit car	d-
	n to:	Pay online at http://ww Click "Pay Fees" Please note: a surcharg for all credit card payn	w.mdaqmd.ca.gov e applies
3) If navment is may	de online via credit card	please email the receipt to Engin	eering@mdagmd.ca.go
	iy additional questions, p r via email at engineerin i	lease, do not hesitate to contact g@mdaqmd.ca.gov	tne permitting division

Page 2 of 2

Payment Confirmation 4/25/2019



Government Payment Service GovPayNet 7102 Lakeview Parkway West Drive Indianapolis, IN 46268

24 Hour Customer Service #: 888-604-7888

Applications Payment Confirmation (Ref #: 25657371)

Mojave Desert Air Quality Management District Date: 04/25/2019 18:40 EDT PLC:

8094 14306 Park Avenue

Victorville, California 92392

For: Applications

TRANSACTION INFORMATION

Transaction Reference #: 25657371 Contact's Name: Alejandra Silva

Transaction Date/Time: Doing Business Cemex

04/25/2019 18:40 EDT

Company Name: Street Address: 16888 E St

Victorville, Ca 92394

(760)381-7638 Telephone #:

Site Address: 25220 Black Mountain Quarry Rd

Apple Valley, Ca 92307

Equipment

Cemex -ice Compressor 2 Description:

BILLING INFORMATION

PAYMENT INFORMATION

Approval #: 001323 Kandyl Martinez Name: 16888 E St Payment Address: \$288.00 Amount: City, State Zip: Victorville, Ca 92394

Service Fee: \$11.25 (760)381-7638 Phone #: Total Amount: \$299.25 Card #: xxxx-xxxx-xxxx-3172

The service fee is not refundable.

ATTENTION CARDHOLDER

If you have questions about the processing of your payment, please call GovPayNet at 888-604-7888.

Thank you for using GovPayNet

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Form #: EUR

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov + @MDAQMD

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)



PLEASE TYPE OR PRINT

Section 1: Owner in					
 Permit to be issued to (compan 	ny name):				eral tax ID #:
CEMEX Construction Material Padific, LLC			1-5	72-029680	0
 Mailing/billing address (for about 1888 North "E" Street, Violoniale, CA 92384 		le city; state an	1 zip code:		
t. Facility or business license nam					
		EX Construction Main			1
 Facility Address — Location of 25220 Black Mountain Cuarry Road, Apple V. 		company, enti	ir "Same"):		Equip. coordinates (lat/long): 34.62417 (-117.90019
Contact name:	Title:		Email address		Phone:
Aliandra V. Silva	Environmental Manager		alojančkov silverija		(760) 381-7849
General nature of business:	2 manual may		anja mining m		Company NAICS:
Coment Manufacturing					327310
☐ Individual owner ☐ Pa☐ Federal agency	artnership 🔽 Corpor	ration L	Utility	Local age	ncy State agency
Section 2: Nature o					
Portable Compressor - John Deere, Name	a - Comp2				
Application is for what type of pe	ermit:	Form	odification or cl	hange of ov	mer:
☑ New construction ☐ Modifi	ication	ner NA		Current	Permit Number
Do you claim Confidentiality of D		es (attach expl	anation; specify	which infor	mation provided is confidential)
Section 3: Equipme Equipment description (give a bri Deserted interes Contenton Engines - Portatio Compress	ief description of the equip	oment and/or	process):		
Power Output: 280 HP (186 NV)					
Engine Mustel Marvisor COCS					
Engine Serial Number: TBD					
Manufacturer: John Deese	Model: 6080			ial number:	
Add-on air pollution control equi	pment? 🔲 Yes 🗹 No (Not	te: most APCE	require a separa	te applicatio	an)
f yes: Manufacturer:	Model:	Serial #:		CARB	EO#:
Type (specify):					
Stack data Exhaust stack heigh	nt from ground: 10	feet E	haust stack diar	meter: 0.5	feet
Stack is: I horizontal vert					
Vent data: Exhaust temp.	°F Maximum exha	aust rate (CFM	:		
	-For	District us	e only-		
Application number:	Invoice number:	Pen			

Page 1 of 2

	Emissions dat					
Emission Factor B	asis (attach any source 5)	pecified): Please, see alt	tached document.			
☐ Manufacturer ☐ Other (please :	Source test M specify):	IDAQMD default [USEPA AP	-42		
Emissions data:						
Pollutant Pre-c	ontrol max. emissions	Units		Post control	max. emissions	Units
NO,						
NMHC			-			
co						
PM10						
SO _c						
Toxic pollutants —	- Please include a list of	all toxic air pollutants	ts and their e	mission rate	if known.	
Section 5:	Operation info	ormation	/			
Fuel Consumption	F.0	at max rated load 🔣	gal/hour	SCF/hou	r MMBtu/hr	
Typical load:						
	eration by quarters (perc % Jan-Mar	cent): % Apr-Jun	Exped		ig hours of equipment by Days/wk	
% Jul-Sep		_ // // // // /			nnual hours	
	Receptor info					
	d direction to the proper	rty line of closest.	8,500 ft	_residence	20,880 t busines	s 29,637 t school
Name of closest s	chool (K-12) Sycamore R	tocks Elementary School				
	julpment operates withi ic notice will be require					of nazardous au
	or reside will be requor	or are superior of the	re opposition	Lesson 3-ran	ron, eg	
	note: District staff ma					
as	requested in a timely					
Section 7:	requested in a timely Certification	manner may result	t in delays i			
Section 7:	requested in a timely	manner may result	t in delays i			
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Section 7: I hereby certify th Carlos Uruchurtu Name of responsi	requested in a timely Certification at all information contai Ble official P O	manner may result	t in delays i	in the proce	ssing of this permit of	application. 4/25/19 Date signed
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Section 7: I hereby certify the Carlos Uruchurtu Name of responsis Phone: (760) 952-4	requested in a timely Certification at all information contain ble official Other page 1864 or (760) 381-7693	manner may result ned herein is true and lant Manager fficial title	t in delays i d correct.	in the proce	ssing of this permit of	application. 4/25/19 Date signed
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Section 7: I hereby certify the Carlos Unuchurtu Name of responsi Phone: (760) 952- Application su 1) Subr 2) Pay 1 for co	requested in a timely Certification at all information contain Bible official Oil 1864 or (760) 381-7693 Submission instruct mit completed application of the corresponding of the check payal Mail the check with Mojave Desert A 14306 Park Avenu Victorville, CA 92: Payment by cred Pay online at http Click "Pay Fees" Please note: a sun yment is made onli	manner may result med herein is true and lant Manager fficial title ctions: ication to Engine application fee of a check or credit sk: ble to the Mojave th a copy of this of QMD le 392 it card: :://www.mdaqmo charge applies fo ne via credit card	Signa Email: eering@m. f \$288 per card. e Desert A completed d, ca.gov	daqmd.ca permit for QMD d applicati	wisible official carlosgabriel.uruchur gov or new or modified on to:	A 25/15 Date signed

Page 2 of 2

Preliminary Determination/Decision - Statement of Basis CEMEX Construction Materials Pacific LLC Last Revision: July 16, 2019

Payment Confirmation 4/29/2019



Government Payment Service GovPayNet 7102 Lakeview Parkway West Drive

Indianapolis, IN 46268 24 Hour Customer Service #: 888-604-7888

Applications Payment Confirmation (Ref #: 25679263)

Mojave Desert Air Quality Management District Date: 04/29/2019 14:10 EDT PLC:

8094 14306 Park Avenue

Victorville, California 92392

For: Applications

TRANSACTION INFORMATION

Transaction Reference #: 25679263 Contact's Name: Alejandra Silva

Doing Business Cemex

Transaction Date/Time: 04/29/2019 14:10 EDT

As:

Company Name:

Street Address: 16888 E St

Victorville, Ca 92394

Telephone #: (760)381-7649

Site Address: 25220 Black Mountain Quarry Rd

Apple Valley, Ca 92307

Equipment Cemex - General App / Compressor 1

Description:

BILLING INFORMATION PAYMENT INFORMATION

Name: Kandyl Martinez Approval #: 011892 16888 E St Address: Payment \$288.00 Amount: City, State Zip: Victorville, Ca 92394 Service Fee: \$11.25 Phone #: (760)381-7689

Total Amount:

Card #: xxxx-xxxx-xxxx-3172

The service fee is not refundable.

ATTENTION CARDHOLDER

If you have questions about the processing of your payment, please call GovPayNet at 888-604-7888.

Thank you for using GovPayNet

© 2007 Government Payment Service, Inc.

Form #: EUR

\$299.25

1/1





APR 1 6 2019

CERTIFIED MAIL

Alejandra Silva Cemex, Inc. 16888 N. "E" Street Victorville, CA 92394

Re: Issuance of Emission Reduction Credit Certificates:

S-5064-2, S-5066-4, and S-5068-5 Project: S-1191147, 1191148, 1191149

Dear Ms. Silva:

The Air Pollution Control Officer (APCO) has approved the inter-district transfer of the emission reduction credit (ERC) certificates S-5064-2, S-5066-4, and S-5068-5 to Cemex, Inc. located in the Mojave Desert Air Quality Management District. The District Governing Board granted authority to the APCO to approve inter-district transfer of ERCs pursuant to Resolution #99-02-04, approved on February 18, 1999.

Enclosed are Emission Reduction Credit (ERC) certificates S-5064-2 (NOx), S-5066-4 (PM10), and S-5068-5 (SOx) issued to Cemex, Inc. in the quarterly amounts requested. The enclosed certificate reflects the partial transfer of ownership of ERCs from Sierra Power Corporation in Terra Bella, CA.

Thank you for your cooperation in this matter. Should you have any questions, please telephone Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely.

Arnaud Marjollet
Director of Permit Services

AM:snl

Enclosures: ERC certificates S-5064-2, S-5066-4, and S-5068-5

Samir Sheikh Executive Director/Air Pollution Control Officer

Northere Region 4800 Enterprise Way Modeste, CA 95396-8718 Tel: (209) 557-8400 FAX: (209) 557-8475 Central Region (Main Office) 1990 E. Gettysburg Avenua Fresno, CA 93726-0244 Tel: (559) 230-6000 FAX: (559) 230-6061

www.valleyair.org www.healthyairliving.com

Southern Region 34948 Flyover Court Bekersfield, CA 93308-9725 Tel: 981-392-5500 FAX: 881-392-5585

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Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

Emission Reduction Credit Certificate S-5064-2

ISSUED TO:

CEMEX, INC.

ISSUED DATE:

April 16, 2019

LOCATION OF REDUCTION:

9000 ROAD 234 TERRA BELLA, CA

For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
220 lbs	220 lbs	219 lbs	219 lbs

Method Of Reduction

[] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[] Other

Shutdown of cogeneration with biomass-fired boiler (S-834-3) and associated fuel handling and solid handling equipment (S-834-1, -6, and -10)

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

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Southern Regional Office • 34948 Flyover Court • Bakersfield, CA 93308

Emission Reduction Credit Certificate S-5066-4

ISSUED TO: CEMEX, INC.

ISSUED DATE: April 16, 2019

LOCATION OF REDUCTION:

9000 ROAD 234 TERRA BELLA, CA

For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
6 lbs	6 lbs	6 lbs	5 lbs

Portion of above PM10 Reductions that is PM2.5:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
100.0%	100.0%	100.0%	100.0%
6 lbs	6 lbs	6 lbs	5 lbs

Method	Of	Red	uct	ion

[] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[] Other

Shutdown of cogeneration with biomass-fired boiler (S-834-3) and associated fuel handling and solid handling equipment (S-834-1, -6, and -10)

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

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Emission Reduction Credit Certificate S-5068-5

ISSUED TO:

CEMEX, INC.

ISSUED DATE:

April 16, 2019

LOCATION OF REDUCTION: 9000 ROAD 234 TERRA BELLA, CA

For SOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1 lbs	1 lbs	1 lbs	1 lbs

Method Of Reduction

[] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[] Other

Shutdown of cogeneration with biomass-fired boiler (S-834-3) and associated fuel handling and solid handling equipment (S-834-1, -6, and -10)

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheich, Executive Director / APCO

Arnoud Manufet Director of Permit Services

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End of Application

Appendix B:

Public Notice

Noticing Methods include the following, per District Rule 1302(D)(2) and (3):

- Published in newspapers of general circulation *Riverside Press Enterprise* (Riverside County) and the *Daily Press* (San Bernardino County) on or before 07-22-19.
- Mailed and/or emailed to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in this Appendix).
- Posted on the MDAQMD Website at the following link, and as shown below: http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry

NOTICE OF PRELIMINARY DETERMINATION

NOTICE IS HEREBY GIVEN THAT CEMEX Construction Materials Pacific LLC, operating as CEMEX - Black Mountain Ouarry Plant, located at 25220 Black Mountain Ouarry Road Apple Valley, CA 92307 and as CEMEX - River Plant, located at 16888 North E Street Victorville, CA 92392, both located in San Bernardino County, California, has submitted an application, to operate two new diesel-fired portable compressor engines and an emergency fire pump. The two towable diesel-fired portable compressors will be moved among each facility depending on the need at either location; the emergency diesel firewater pump will be permanently located at the CEMEX Quarry Plant. The proposed DIESEL IC ENGINE, EMERGENCY FIREWATER PUMP consisting of: Year of Manufacture is 2013. Engine is a certified Tier III 4-Stroke Rich Burn (4SRB) diesel engine, EPA Family DJDXL09.0114; EPA Certificate Number DJDXL09.0114-005; Engine Model Year 2013, that meets USA EPA (NSPS) Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Subpart IIII). The proposed two new DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR's are each described as John Deere, Diesel fired internal combustion engine Model No. 6090HFC47A and Serial No. TBD, After Cooled, Diesel Oxidation Catalyst, Diesel Particulate Filter, Selective Catalytic Reduction, producing 250 bhp with 6 cylinders at 2100 rpm while consuming a maximum of 10.1 gal/hr, and powers an Air-Compressor.

Additionally, the applicant has proposed that the Emergency Firewater pump engine to be permitted for 50 hours for testing and maintenance purposes, and each of the two Portable Air Compressors to be operated no more than 480 hours each in any consecutive 12-month period.

Since the engines are to be located at an existing Major Source, the applicant has proposed that the new emissions be offset through the use of Emission Reduction Credits (ERCs) that are wholly owned by CEMEX Construction Materials Pacific LLC. These Emission reduction credits (ERCs) were purchased from Sierra Power Corporation and transferred to CEMEX to offset the applicable annual pollutant emissions produced by the additional engines. The ERCs were transferred from San Joaquin Valley Air Pollution Control District (SJVAPCD) to MDAQMD, in the following quantities: 23 pounds of PM10, 878 pounds of NOx, and 4 pounds of SOx. Since the offsets originate from an upwind District, the ERCs will be applied at an offset

ratio of 1.3 to 1.0 for project annual emissions as required by Rule 1305(C). These emission credits will be used to offset ALL emissions types for which the facility is a Major Source of, namely NOx, VOCs, and PM10. NOx will be used to offset VOC's at an additional interpollutant offset ratio of 2:1. CO will not be offset as the District is in attainment for this Air Pollutant. Additionally, and since the facility is an existing Major Source for NOX, CO, VOCs, and PM10, all these engines will be equipped with Best Available Control Technology (BACT), and Best Available Control Technology for Toxics (T-BACT) for the Portable Air Compressors. The Emergency Firewater Pump is Not Required to be equipped with T-BACT due to its location and the Health Effects from the CEMEX Quarry Plant. As such, the portable air compressors engines shall be equipped with an After Cooler, Diesel Oxidation Catalyst, Diesel Particulate filter, and Selective Catalytic Reduction system in order to achieve a Tier IV Final designation, the maximum emission reductions for this class and category of device. The Emergency Diesel-powered Firewater Pump engine is a cerified Tier III engine considered BACT for this class and category.

Concurrently, the applicant has submitted a Title V Permit modification application for their Federal Operating Permit (100005) pursuant to the provisions of the Mojave Desert Air Quality Management District (MDAQMD) Regulation XII. The proposed facility changes require the MDAQMD to perform a thorough New Source Review (NSR), pursuant to District regulation XIII.

The MDAQMD has reviewed the proposal, analyzed the emissions and control equipment associated with the new equipment and determined that the modified facility will continue to operate in compliance with all District, State, and Federal requirements once the modification is complete.

Since the engines are a source of Toxic Air Contaminants, a Health Risk Analysis was conducted, and it has been concluded that the Health Risks associated with the modified facility operations will be acceptable per the 2016 OEHHA Guidelines.

REQUEST FOR COMMENTS: Interested persons are invited to submit written comments and/or other documents regarding the terms and conditions of the proposed NSR modification, and the associated Federal Operating Permit. If you submit written comments, you may also request a public hearing on the NSR action and proposed modification to the Federal Operating Permit. To be considered, comments, documents, and requests for public hearing must be submitted no later than 4:00 P.M. on August 21, 2019, to the MDAQMD, at the address listed below.

PETITION FOR REVIEW: The NSR action and Draft Federal Operating Permit are subject to review and approval by USEPA and the CARB. If the USEPA and CARB do not object to the proposed permit and Statement of Legal and Factual Basis, and the MDAQMD has not addressed a public comment in a satisfactory manner, the public may petition USEPA, Region IX, Operation Permits Section at 75 Hawthorne Street, San Francisco, CA 94105 within 60 days after the end of the USEPA review period for USEPA to reconsider its decision not to object to the permit.

AVAILABILITY OF DOCUMENTS: The proposed Federal Operating Permit, as well as the application and other supporting documentation are available for review at the MDAQMD offices, 14306 Park Avenue, Victorville, CA 92392. In addition, these documents are available on the MDAQMD website and can be viewed at following link: http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulatedindustry. Please contact Samuel J Oktay, PE, Air Quality Engineer II, at the address above, or (760) 245-1661, extension 1610, or at soktay@mdaqmd.ca.gov with additional questions pertaining to this action and/or corresponding documents. *Traducción en español esta disponible por solicitud. Por favor llame: (760) 245-1661 x1610*

Mr. Larry Trowsdale

mchsi

951 E Skylark Ave Ridgecrest, CA 93555

Chief, Planning Division California Air Resources Board

P.O. Box 2815

Sacramento, CA 95812

Mr. Mike Sword

Planning Div Mgr, Clark Co Dept of Air Q and

4701 Russell Road, Suite 200 Las Vegas, NV 89118

Environmental Manager Duffield Marine, Inc. 17260 Muskrat Avenue Adelanto, CA 92301

Mr. Jon Boyer

High Desert Power Project LLC

19000 Perimeter Rd Victorville, CA 92394

Ms. Carol Kaufman Metropolitan Water District

700 N Alameda Street, 8th Floor, Rm 106

Los Angeles, CA 90012

Mr. John F. Espinoza

HES Manager, Molycorp Minerals, LLC

HC-1 Box 224

Mountain Pass, CA 92366

Chief, Bureau of Air Quality NDCNR, Env Prot Div (Air) 901 South Stewart St, Suite 4001 Carson City, NV 89701-5249

Mr. Steve Smith

SB County Transportation Authority 1170 W. Third Street, Second Floor San Bernardino, CA 92410

Mr. Michael Eichenlaub Specialty Minerals Inc.

P.O. Box 558

Lucerne Valley, CA 92356-0558

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Adams Broadwell Joseph & Cardozo 601 Gateway Blvd., St. 1000

South San Francisco, CA 94080-7037

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Environmental Manager, CalPortland-Oro

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Mr. Randy Lack

Chief Marketing Officer, Element Markets,

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Mr. Glen King

Environmental Manager, Luz Solar Partners

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Mr. David Rib

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Lucerne Valley, CA 92356-9691

Senior EHS Analyst, NASA/Goldstone DSCC

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Mr. Mark Solheid

Mr. Mike Peay

EH&S Manager, Northwest Pipe Co.

12351 Rancho Road Adelanto, CA 92301

Mr. Anoop Sukumaran

Environmental Engineer, Searles Valley

P.O. Box 367

Trona, CA 93592-0367

Director, Air Division (Attn: AIR-3) United States EPA, Region IX

75 Hawthorne Street San Francisco, CA 94105 Mr. Ramon Campos

Environmental Compliance Manager, Blythe

P.O. Box 1210 Blythe, CA 92226

City Manager City of Barstow

220 East Mountain View, Suite A

Barstow, CA 92311

Mr. Kent T. Christensen

HS&E Manager, Ducommun Aerostructures

4001 El Mirage Road Adelanto, CA 92301

Ms. Christine Grandstaff Evolution Markets 27801 Golden Ridge Lane

San Juan Capistrano, CA 92675

Mr. Mike Plessie

HQBN B CO, NREA MCAGCC

Box 78110

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Environmental Manager

Mobile Pipe Lining & Coating, Inc

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Mr. Don Shepherd

National Park Service, Air Resources Div

12795 W Alameda Pkwy Lakewood, CO 80228

Ms. Diana Furman

Senior Gas Engineer, PG&E (Attn: Air

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San Francisco, CA 94120

Ms. Karin Fickerson

Air Quality Team Lead, SoCalGas 1650 Mountain View Avenue

Oxnard, CA 93030

Ms. Anne McQueen

Senior Engineer, Yorke Engineering, LLC 31726 Rancho Viejo Road, Suite 218 San Juan Capistrano, CA 92675 Air Program Manager

Environmental Division, USMC MCLB

Box 110170 Bldg 196 Barstow, CA 92311

Bureau of Indian Affairs

1451 Research Park Drive, Suite 100

Riverside, CA 92507

Ms. Sheri Haggard

Supervising Permit Engineer, MDAQMD

14306 Park Ave Victorville, CA 92392

Ms. Jenna Latt

CARB/Office of Ombudsman 9480 Telstar Avenue, Annex 1

El Monte, CA 91731

Mr. Guy Smith

Permit Engineer, Mojave Desert AQMD

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Mr. John Vidic

Air Program Manager, USAF 412

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Mr. Anthony Fang

Metropolitan Water District

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Los Angeles, CA 90012

Andrew Salas

Chairman, Gabriel Band of Mission Indians -

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Mr. Steve Cummings

Senior Air Quality Tech Specialist, Southern

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Rosemead, CA 91770

Mr. Luis Pacheco

EH&S Manager, OMYA (California), Inc.

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Division Chief, San Bernardino County EHS 385 N Arrowhead Ave, Second Floor

San Bernardino, CA 92415-0160

Mr. Dan Guillory

Environmental Contact, Metropolitan Water

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Mr. Juziel Picado

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Ms. Jessica Gammett

Environmental Manager, CalPortland

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Oro Grande, CA 92368